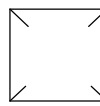
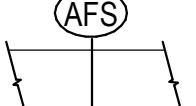
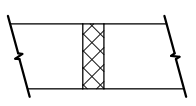
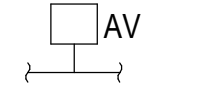
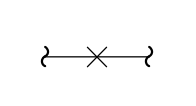
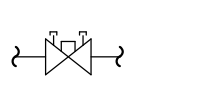
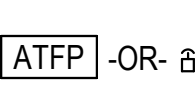
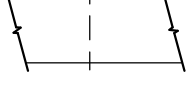
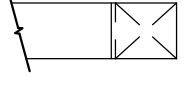
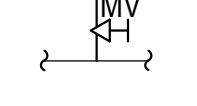
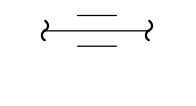
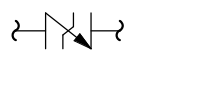
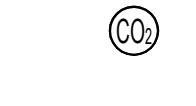
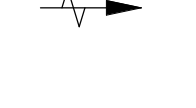
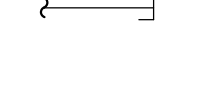
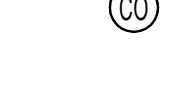
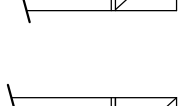
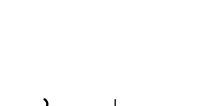
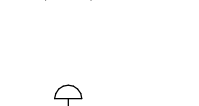
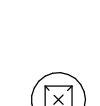
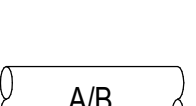
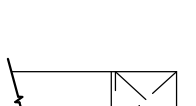
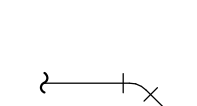
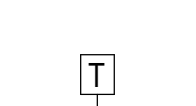
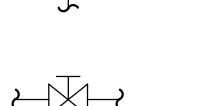
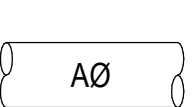
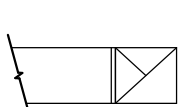
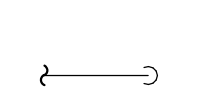
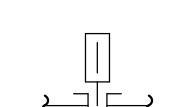
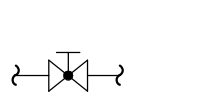
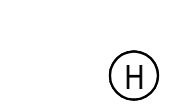
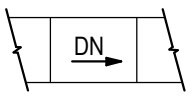
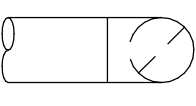
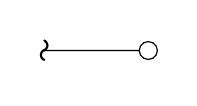
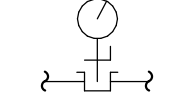
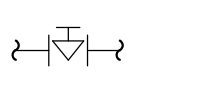
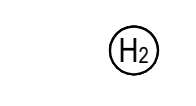
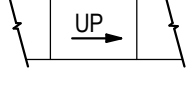
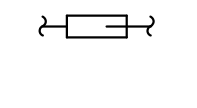
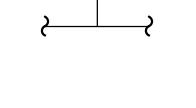
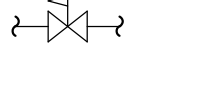
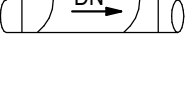
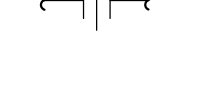
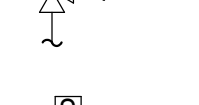
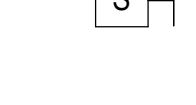
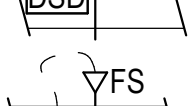
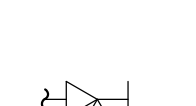
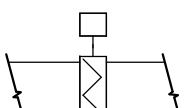
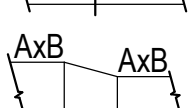
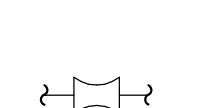
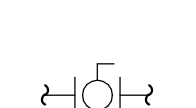
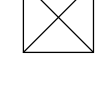
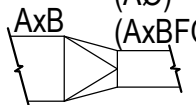
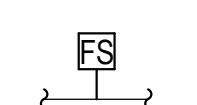
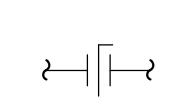
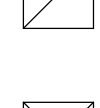
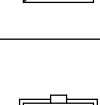


A

B

C

D

MECHANICAL SYMBOLS LEGEND													
GENERAL		DUCTWORK		DUCTWORK - CONT		PIPING		PIPING - CONT		PIPING - CONT		CONTROL / SENSORS	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ACCESS PANEL		AIRFLOW MEASUREMENT STATION		FLEXIBLE CONNECTION		AIR VENT (AUTOMATIC)		PIPE ANCHOR		VALVE, CALIBRATED BALANCE		ATFP SHUTDOWN SWITCH
	CONNECT TO EXISTING		BACKDRAFT DAMPER		SUPPLY DUCT DOWN		AIR VENT (MANUAL)		PIPE GUIDE		VALVE, CHECK (SPRING)		CARBON DIOXIDE SENSOR
	REMOVE TO EXISTING		DIRECTION OF AIRFLOW - RETURN		SUPPLY DUCT UP		CAP		STRAINER WITH VALVED AND CAPPED BLOW DOWN		VALVE, CHECK (SWING GATE)		CARBON MONOXIDE SENSOR
	DOOR LOUVER		DIRECTION OF AIRFLOW - SUPPLY		RETURN DUCT DOWN (SLASH MAY BE FLIPPED)		DIRECTION OF WATER FLOW		TEE DOWN		VALVE, CONTROL (2-WAY)		DIRECT DIGITAL CONTROL PANEL
	DOOR UNDERCUT		DUCTWORK - DIMENSIONS (SIDE SHOWN x SIDE NOT SHOWN)		RETURN DUCT UP (SLASH MAY BE FLIPPED)		ELBOW 90°		TEE UP		VALVE, CONTROL (3-WAY)		DUCTWORK - DIFFERENTIAL PRESSURE
	EXHAUST FAN		DUCTWORK - DIMENSIONS - FLAT OVAL (SIDE SHOWN x SIDE NOT SHOWN)		EXHAUST DUCT DOWN (SLASH MAY BE FLIPPED)		ELBOW 45°		TEMPERATURE SENSOR		VALVE, GATE		DUCTWORK - DUCT SMOKE DETECTOR
	KEYNOTE		DUCTWORK - DIMENSIONS - ROUND		EXHAUST DUCT UP (SLASH MAY BE FLIPPED)		ELBOW 90° DOWN		THERMOMETER		VALVE, GLOBE		HUMIDISTAT SENSOR
	REVISION		DUCT ELEVATION DROP		ELBOW 90° DOWN		ELBOW 90° UP		PRESSURE GAUGE WITH GAUGE COCK		VALVE, PLUG		HYDROGEN SENSOR
AIR DEVICE			DUCT ELEVATION RISE		ELBOW 90° UP		EXPANSION JOINT		PT (PRESSURE & TEMPERATURE) TEST PORT		VALVE, PRESSURE REDUCING		NITROGEN OXIDE SENSOR
SYMBOL	DESCRIPTION		DUCT ELEVATION DROP (ROUND OR FLAT OVAL)		FIRE DAMPER		UNION		PUMP (ARROW IS DIRECTION OF FLOW)		VALVE, PRESSURE RELIEF		STARTER (EQUIPMENT SERVED)
	AIR DEVICE TAG		DUCT ELEVATION RISE (ROUND OR FLAT OVAL)		SMOKE DAMPER		FLEXIBLE CONNECTION		REDUCER		VALVE, SOLENOID		SWITCH
	SUPPLY SQUARE AIR DIFFUSER		MANUAL VOLUME DAMPER		COMBINATION FIRE / SMOKE DAMPER		FLOWMETER - ORIFICE		VALVE, ANGLE GLOBE				
	RETURN (SLASH MAY BE FLIPPED)		MOTOR OPERATED DAMPER		DUCTWORK - TRANSITION - RECTANGULAR		FLOWMETER - VENTURI		VALVE, BALL				
	EXHAUST (SLASH MAY BE FLIPPED)		FLEXIBLE DUCT		DUCTWORK - TRANSITION - RECTANGULAR TO ROUND / FLAT OVAL		FLOW SWITCH		VALVE, BUTTERFLY				
	LINEAR SLOT DIFFUSER (ALL SYSTEMS)												

HVAC PIPE LEGEND	
SYMBOL	DESCRIPTION
-----	CONDENSATE DRAIN
-----	DOMESTIC COLD WATER
-----	DOMESTIC HOT WATER
-----	CHILLED WATER RETURN
-----	CHILLED WATER SUPPLY
-----	CONDENSER WATER RETURN
-----	CONDENSER WATER SUPPLY
-----	HEATING WATER RETURN
-----	HEATING WATER SUPPLY
-----	REFRIGERANT SUCTION / REFRIGERANT LIQUID *
* RS/RL LINES MUST BE SIZED PER EQUIPMENT MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.	

NOTE: LEGEND AND ABBREVIATIONS ARE ALL INCLUSIVE. SOME SYMBOLS OR ABBREVIATIONS SHOWN MAY NOT BE USED IN THIS PROJECT

MECHANICAL ABBREVIATIONS									
ABBREV	DESCRIPTION	ABBREV	DESCRIPTION	ABBREV	DESCRIPTION	ABBREV	DESCRIPTION	ABBREV	DESCRIPTION
AC	AIR CONDITIONER, AIR CURTAIN	CUH	CABINET UNIT HEATER	ET	EXPANSION TANK	HWR	HOT WATER RETURN	PNL	PANEL
ACCU	AIR COOLED CONDENSING UNIT	CW	DOMESTIC COLD WATER	ETR	EXISTING TO REMAIN	HWS	HOT WATER SUPPLY	POC	POINT OF CONNECTION
ACU	AIR CONDITIONING UNIT	CWBT	CHILLED WATER BUFFER TANK	EWT	ENTERING WATER TEMPERATURE	ID	INSIDE DIAMETER	PRESS	PRESSURE
AD	ACCESS DOOR	CWP	CONDENSER WATER PUMP	EXH	EXHAUST	IN	INCH(ES)	PRV	PRESSURE RELIEVING VALVE
AFF	ABOVE FINISHED FLOOR	CWPP	CONDENSER WATER PRIMARY PUMP	EXIST, EX	EXISTING	INSUL	INSULATE(D), INSULATION	PSI	POUNDS PER SQUARE INCH
AHU	AIR HANDLING UNIT	CWPR	CONDENSER WATER RETURN (PRIMARY LOOP)	(F)	FUTURE	KEF	KITCHEN EXHAUST FAN	PSIG	PSI GAUGE
APD	AIR PRESSURE DROP	CWPS	CONDENSER WATER SUPPLY (PRIMARY LOOP)	FAI	FRESH AIR INTAKE	KW	KILOWATT(S)	PTAC	PACKAGED TERMINAL AIR CONDITIONER
APPROX	APPROXIMATE(LY)	CWR	CONDENSER WATER RETURN	FCU	FAN COIL UNIT	KWH	KILOWATT HOURS	QTY	QUANTITY
ARCH	ARCHITECT(URAL)	CWS	CONDENSER WATER SUPPLY	FDB	DEGREE(S) FAHRENHEIT DRY BULB	L	LOUVER	RA	RETURN AIR
AS	AIR SEPARATOR	DB	DRY BULB	FIN FLR	FINISHED FLOOR	LAT	LEAVING AIR TEMPERATURE	REQ'D	REQUIRED
B	BOILER	DDC	DIRECT DIGITAL CONTROL	FLEX	FLEXIBLE	LB, LBS	POUND(S)	RF	RETURN FAN
BAS	BUILDING AUTOMATION SYSTEM	DEG	DEGREE(S)	FPM	FEET PER MINUTE	LWT	LEAVING WATER TEMPERATURE	RH	RELATIVE HUMIDITY
BCU	BLOWER COIL UNIT	DIA	DIAMETER	FT	FOOT, FEET	MAG	MAGNETIC	RM	ROOM
BHP	BREAK HORSEPOWER	DIFF	DIFFUSER	FWB	DEGREE(S) FAHRENHEIT WET BULB	MAINT	MAINTENANCE	RPM	REVOLUTIONS PER MINUTE
BLDG	BUILDING	DISC	DISCONNECT	GA	GAUGE	MAU	MAKE-UP AIR UNIT	RS/RL	REFRIGERANT SUCTION / REFRIGERANT LIQUID
BOT	BOTTOM	DOAS	DEDICATED OUTDOOR AIR SYSTEM	GC	GENERAL CONTRACTOR	MAX	MAXIMUM	RTU	ROOFTOP AIR HANDLING UNIT
BTU	BRITISH THERMAL UNIT	DWG	DRAWING	GMU	GLYCOL MAKEUP UNIT	MBH	1,000 BTUH	RV	RELIEF VENTILATOR
BTUH	BRITISH THERMAL UNIT(S) PER HOUR	DWH	DOMESTIC WATER HEATER	GPM	GALLON(S) PER MINUTE	MC	MECHANICAL CONTRACTOR	SA	SUPPLY AIR
CAP	CAPACITY	DX	DIRECT EXPANSION	GRD	GRILLES, REGISTERS, DIFFUSERS	MECH	MECHANICAL	SAR	SUPPLY AIR REGISTER
CCFC	CLOSED CIRCUIT FLUID COOLER	EA	EXHAUST AIR	GV	GRAVITY VENTILATOR	MFR	MANUFACTURER	SP	STATIC PRESSURE (INCHES WG)
CD	CONDENSATE DRAIN	EAG	EXHAUST AIR GRILLE	GWR	GLYCOL WATER RETURN	MIN	MINIMUM	SQ	SPECIFICATIONS
CFM	CUBIC FEET PER MINUTE	EAR	EXHAUST AIR REGISTER	GWS	GLYCOL WATER SUPPLY	MISC	MISCELLANEOUS	STRUC	STRUCTURE, STRUCTURAL
CH	CHILLER	EAT	ENTERING AIR TEMPERATURE	DHW	DOMESTIC HOT WATER	MUA	MAKE-UP AIR	TA	TRANSFER AIR
CLG	CEILING, COOLING	EC	ELECTRICAL CONTRACTOR	HC	HEATING COIL	NC	NORMALLY CLOSED, NOISE CRITERIA	TEMP	TEMPERATURE
CON	CONNECTION	EF	EXHAUST FAN	HOA	HAND-OFF-AUTO(MATIC)	NIC	NOT IN CONTRACT	TXV	THERMAL EXPANSION VALVE
CONC	CONCRETE	ELEC	ELECTRIC(AL)	HP	HORSEPOWER	NO	NORMALLY OPEN	TYP	TYPICAL
CONT	CONTINUOUS, CONTINUATION, CONSTANT	ERU	ENERGY RECOVERY UNIT	HTG	HEATING	NTS	NOT TO SCALE	UH	UNIT HEATER
CONTR	CONTRACTOR	ERV	ENERGY RECOVERY VENTILATOR	HPU	HEAT PUMP UNIT	OA	OUTSIDE AIR	UNO	UNLESS NOTED OTHERWISE
CONV	CONVECTOR	ERW	ENERGY RECOVERY WHEEL	HTR	HEATER	OD	OUTSIDE DIAMETER	VAV	VARIABLE AIR VOLUME
CTL	CONTROL	ESP	EXTERNAL STATIC PRESSURE	HVAC	HEATING VENTILATION / AIR CONDITIONING	OED	OPEN END(ED) DUCT		
CU FT	CUBIC FEET					P	PUMP		
						PLBG	PLUMBING		

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Consultant

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SEAL

REVISIONS			
NO.	DATE	DESCRIPTION	



FDOT D3 OPERATIONS CENTER
CHIPLEY, FL 32428

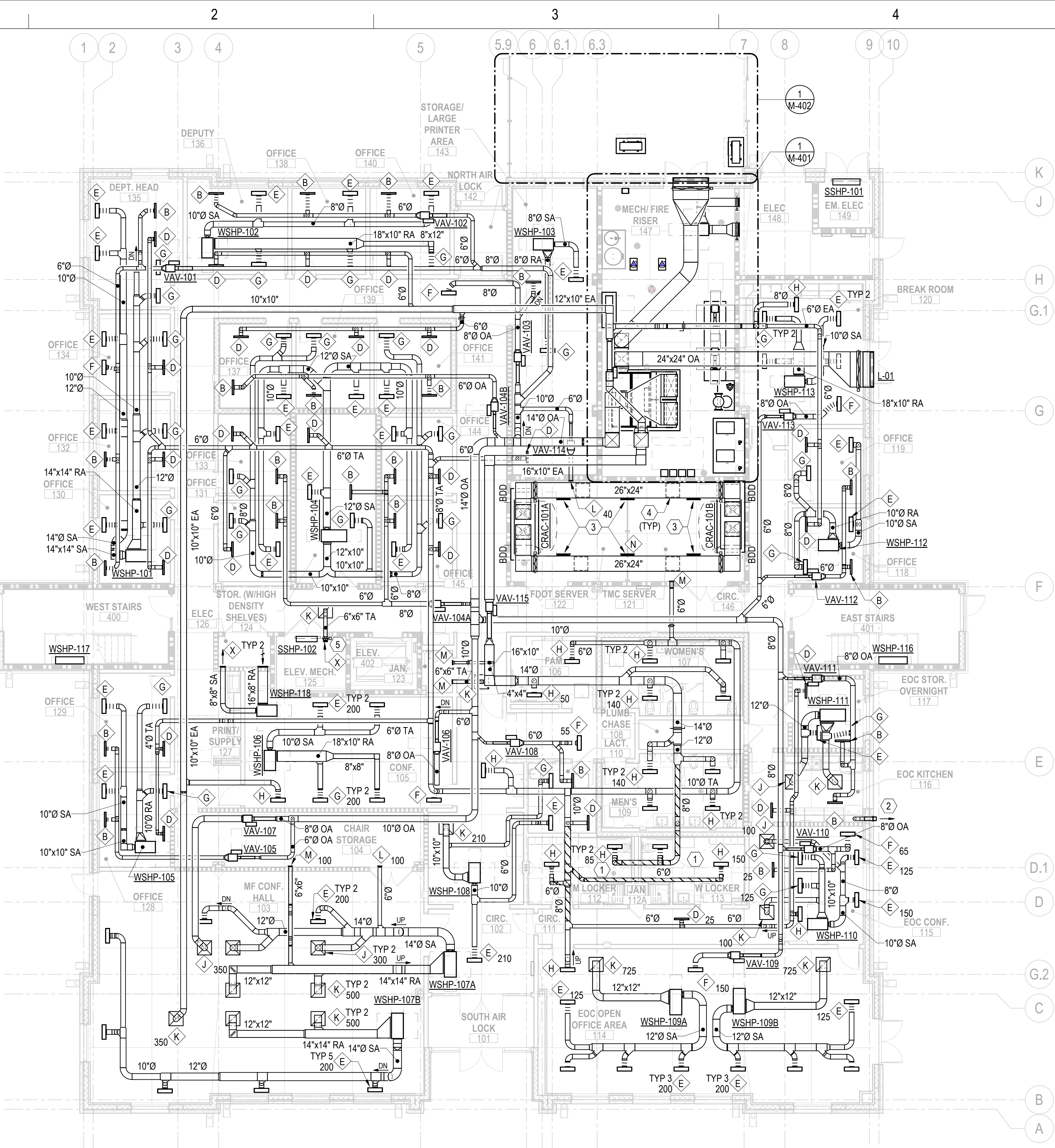
MECHANICAL - SYMBOLS AND ABBREVIATIONS

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Date:	07-10-2026
Scale:	AS NOTED
Sheet #	M-001

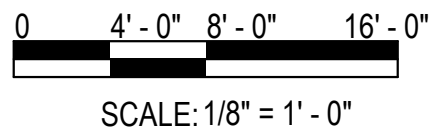
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PHASE IV - FINAL DESIGN SUBMITTAL 7/7/2026 11:57:46 AM

SPACE AIRFLOWS				
SPACE	SA	RA	OA	EA / TA
110 - LACT.	55	55	25	25
116 - EOC KITCHEN	350	350	25	25
117 - EOC STOR. OVERNIGHT	180	180	20	20
118 - OFFICE	200	200	20	20
119 - OFFICE	200	200	20	20
120 - BREAK ROOM	360	360	100	90
124 - STOR. (W/HIGH DENSITY SHELVES)	75	75	20	20
128 - OFFICE	200	200	20	20
129 - OFFICE	200	200	20	20
130 - OFFICE	200	200	20	20
131 - OFFICE	65	65	20	20
132 - OFFICE	200	200	20	20
133 - OFFICE	65	65	20	20
134 - OFFICE	200	200	20	20
135 - DEPT. HEAD	400	400	25	20
136 - DEPUTY	155	155	20	20
137 - OFFICE	65	65	20	20
138 - OFFICE	130	130	20	20
139 - OFFICE	75	75	20	20
140 - OFFICE	130	130	20	20
141 - OFFICE	65	65	20	20
143 - STORAGE/ LARGE PRINTER AREA	220	220	40	40
144 - OFFICE	65	65	20	20
145 - OFFICE	70	70	20	20



1 HVAC - 1ST FLOOR PLAN
SCALE: 1/8" = 1'-0"



SCALE: 1/8" = 1' - 0"

GENERAL NOTES

- SEE M-001 & M-002 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS, AND HVAC PIPE LEGEND.
- PROVIDE MANUAL VOLUME DAMPERS IN ALL RUN-OUTS TO DIFFUSERS, BRANCH TAKE-OFFS FROM MAIN SUPPLY DUCTS AND ALL OTHER LOCATIONS AS REQUIRED TO PROVIDE PROPER SYSTEM AIRFLOW BALANCING.
- ALL SUPPLY AIR DUCT RUN-OUTS TO DIFFUSERS AND REGISTERS SHALL BE SIZED TO MATCH THE NECK SIZE OF THE DEVICE AS INDICATED ON THE DIFFUSER, REGISTER AND GRILLE SCHEDULE.
- SHEET METAL FABRICATOR MAY SUBSTITUTE EQUIVALENT ROUND OR FLAT OVAL DUCTWORK FOR RECTANGULAR SIZES INDICATED. DUCTWORK BETWEEN AHU AND VAV BOXES SHALL BE SIZED TO 0.2" STATIC PRESSURE LOSS PER 100' OF DUCT RUN. DUCTWORK DOWNSTREAM OF VAV BOXES, RETURN, EXHAUST AND TRANSFER AIR DUCTS SHALL BE SIZED TO 0.08/100' OF DUCT RUN. ALL REVISIONS MUST BE COORDINATED WITH ALL OTHER TRADES AND ILLUSTRATED IN DUCTWORK SHOP DRAWINGS FOR APPROVAL.
- REFER TO SPACE AIRFLOWS SCHEDULE FOR AIR TERMINAL TAGS WITHOUT AIRFLOWS.
- REFER TO MP SERIES DRAWINGS FOR LOCATION OF WALL MOUNTED CONTROL SENSORS.

KEYNOTES

- DUCTWORK ROUTED WITHIN LOCKER ROOMS AND FOR 5 LINEAR FEET OUTSIDE OF THE LOCKER ROOM MUST BE CONSTRUCTED OF G90 GALVANIZED STEEL.
- EA FROM MICROWAVE ABOVE RANGE TO WALL DISCHARGE CAP. MAX 400 CFM. INSTALL PER MANUFACTURER'S REQUIREMENTS. PROVIDE EXHAUST FAN MANUFACTURER'S STANDARD WALL CAP DISCHARGE ACCESSORY COMPLETE WITH BACKDRAFT DAMPER AND BIRD SCREEN.
- PROVIDE 1-WAY THROW PATTERN AT 45° DOWNWARD ANGLE.
- PROVIDE 3-WAY THROW PATTERN.
- MOTORIZE DAMPER, NORMALLY CLOSED. INTERLOCKED WITH REFRIGERANT LEAK DETECTION OF SPLIT SYSTEM. DAMPER MUST OPEN IF LEAK IS DETECTED AND REMAIN OPEN UNTIL LEAK IS NO LONGER DETECTED. FINAL SIZE OF DUCT MUST BE COORDINATED WITH REQUIRED REFRIGERANT CHARGE OF FINAL SYSTEM SELECTION IN ACCORDANCE WITH ASHRAE AND UL REQUIREMENTS.

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HVAC - 1ST FLOOR PLAN

Project Number:
4483951-52-01

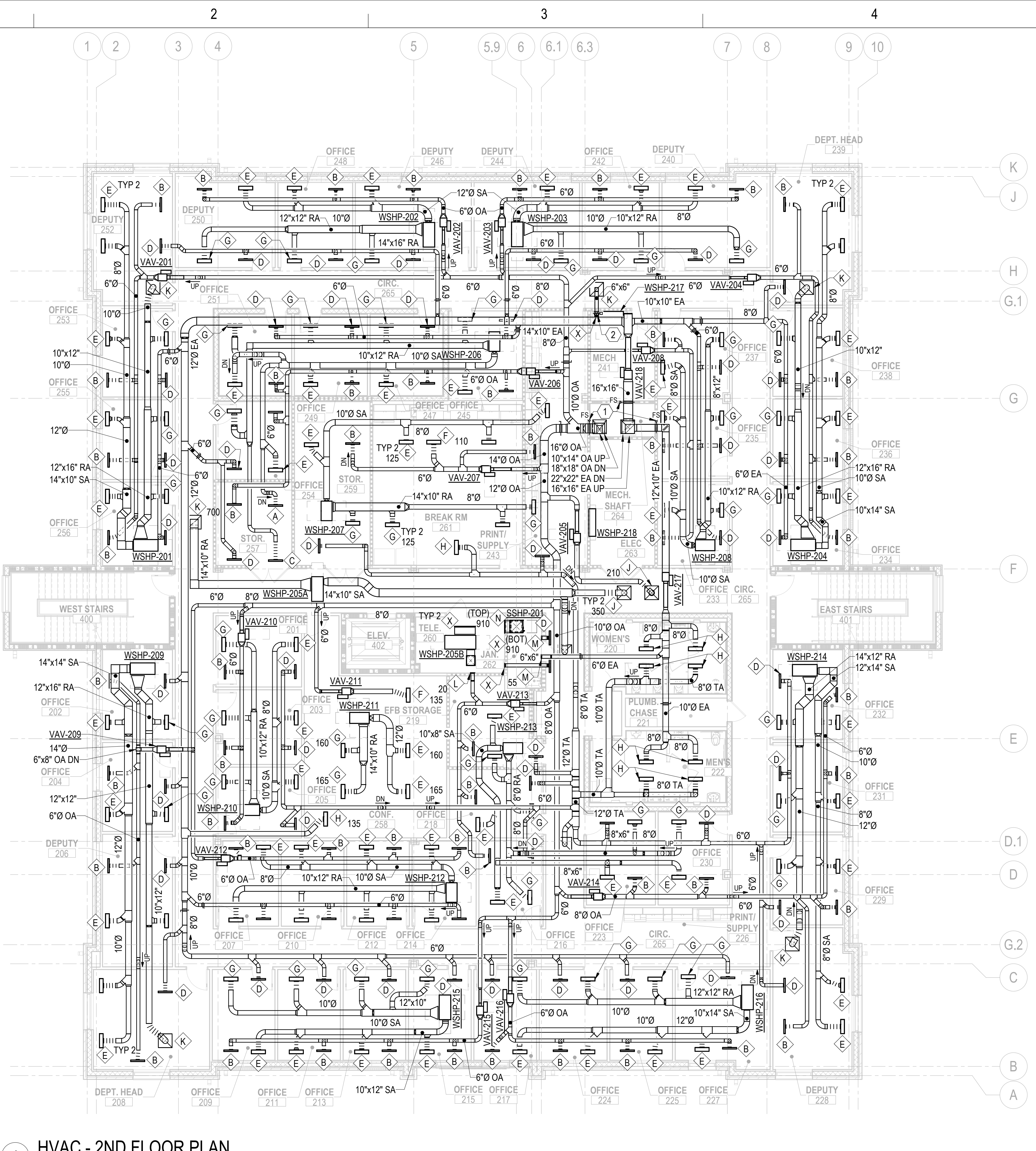
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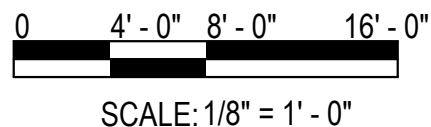
Sheet #
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SPACE AIRFLOWS				
SPACE	SA	RA	OA	EA / TA
201 - OFFICE	75	75	20	20
202 - OFFICE	185	185	20	20
203 - OFFICE	75	75	20	20
204 - OFFICE	185	185	20	20
205 - OFFICE	75	75	20	20
206 - DEPUTY	210	210	25	20
207 - OFFICE	75	75	20	20
208 - DEPT. HEAD	390	390	25	25
209 - OFFICE	150	150	20	20
210 - OFFICE	75	75	20	20
211 - OFFICE	150	150	20	20
212 - OFFICE	75	75	20	20
213 - OFFICE	150	150	20	20
214 - OFFICE	75	75	20	20
215 - OFFICE	150	150	20	20
216 - OFFICE	75	75	20	20
217 - OFFICE	150	140	20	20
218 - OFFICE	75	75	20	20
219 - EFB STORAGE	75	75	20	20
223 - OFFICE	75	75	20	20
224 - OFFICE	155	155	20	20
225 - OFFICE	155	155	20	20
227 - OFFICE	210	210	20	20
228 - DEPUTY	300	300	25	25
229 - OFFICE	150	150	20	20
230 - OFFICE	75	75	20	20
231 - OFFICE	150	150	20	20
232 - OFFICE	150	150	20	20
233 - OFFICE	75	75	20	20
234 - OFFICE	150	150	20	20
235 - OFFICE	75	75	20	20
236 - OFFICE	150	150	20	20
237 - OFFICE	75	75	20	20
238 - OFFICE	150	150	20	20
239 - DEPT. HEAD	300	300	25	25
240 - DEPUTY	200	200	25	20
242 - OFFICE	145	145	20	20
243 - PRINT/ SUPPLY	200	200	25	25
244 - DEPUTY	210	210	20	20
245 - OFFICE	75	75	20	20
246 - DEPUTY	210	210	25	20
247 - OFFICE	75	75	20	20
248 - OFFICE	150	150	20	20
249 - OFFICE	75	75	20	20
250 - DEPUTY	210	210	20	20
251 - OFFICE	75	75	20	20
252 - DEPUTY	400	400	25	25
253 - OFFICE	200	200	20	20
254 - OFFICE	75	75	20	20
255 - OFFICE	200	200	20	20
256 - OFFICE	200	200	20	20
257 - STOR.	25	25	20	20
259 - STOR.	60	60	20	20



1 HVAC - 2ND FLOOR PLAN
SCALE: 1/8" = 1'-0"



SCALE: 1/8" = 1' - 0"

GENERAL NOTES

- SEE M-001 & M-002 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS, AND HVAC PIPE LEGEND.
- PROVIDE MANUAL VOLUME DAMPERS IN ALL RUN-OUTS TO DIFFUSERS, BRANCH TAKE-OFFS FROM MAIN SUPPLY DUCTS AND ALL OTHER LOCATIONS AS REQUIRED TO PROVIDE PROPER SYSTEM AIRFLOW BALANCING.
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- REFER TO SPACE AIRFLOWS SCHEDULE FOR AIR TERMINAL TAGS WITHOUT AIRFLOWS.
- REFER TO MP SERIES DRAWINGS FOR LOCATION OF WALL MOUNTED CONTROL SENSORS.

KEYNOTES

- PROVIDE FIRE/SMOKE DAMPER AND DUCT SMOKE DETECTOR AT SHAFT PENETRATIONS. COORDINATE WITH FIRE ALARM CONTRACTOR.
- MOTORIZE DAMPER, NORMALLY CLOSED. INTERLOCKED WITH REFRIGERANT LEAK DETECTION OF SPLIT SYSTEM. DAMPER MUST OPEN IF LEAK IS DETECTED AND REMAIN OPEN UNTIL LEAK IS NO LONGER DETECTED. FINAL SIZE OF DUCT MUST BE COORDINATED WITH REQUIRED REFRIGERANT CHARGE OF FINAL SYSTEM SELECTION IN ACCORDANCE WITH ASHRAE AND UL REQUIREMENTS.

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CHIPLEY, FL 32428

HVAC - 2ND FLOOR PLAN

Project Number:
4483951-52-01

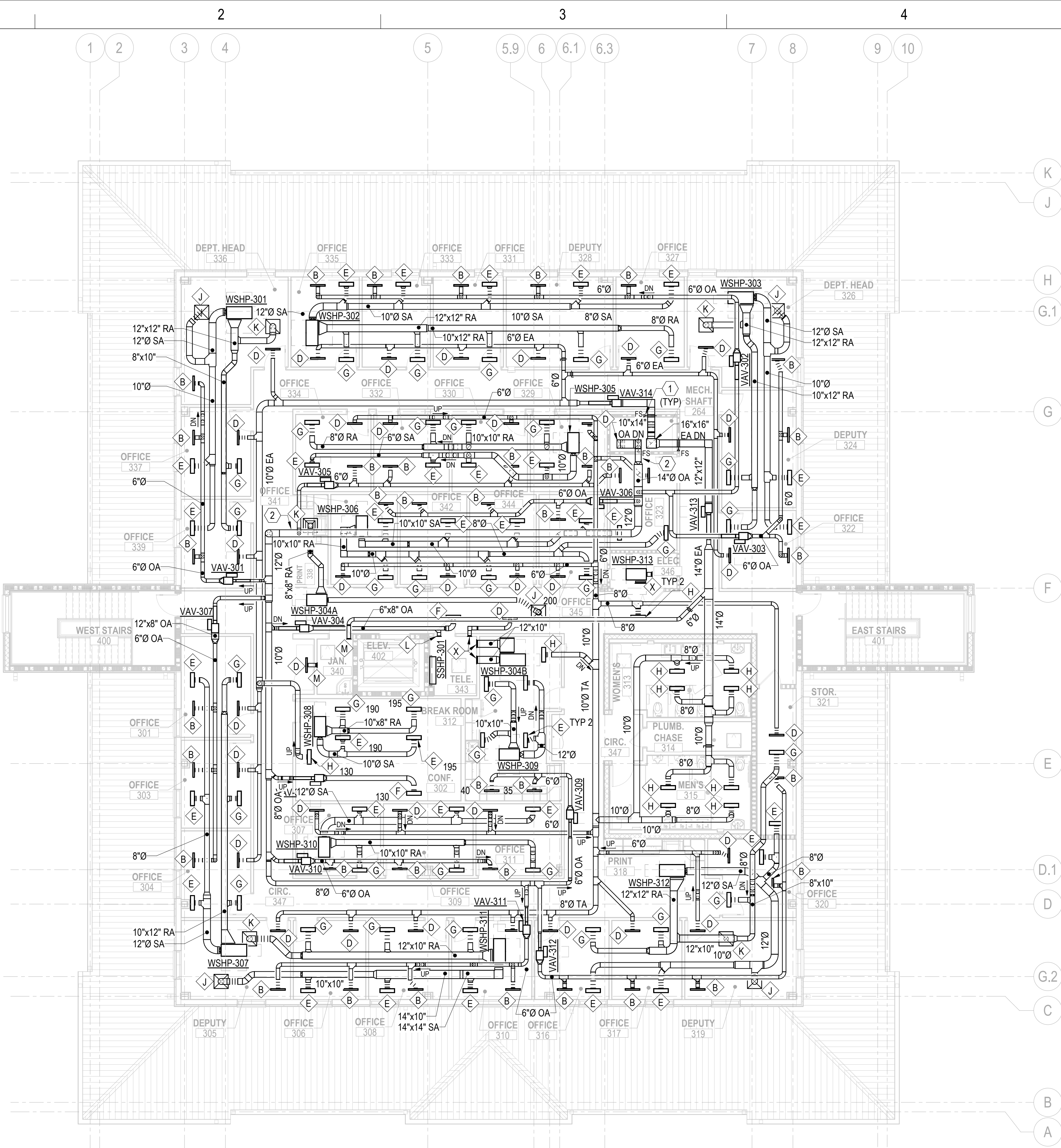
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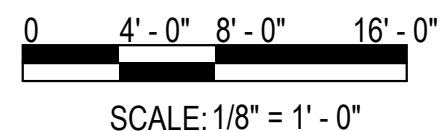
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SPACE AIRFLOWS				
SPACE	SA	RA	OA	EA / TA
301 - OFFICE	175	175	20	20
303 - OFFICE	175	175	20	20
304 - OFFICE	175	175	20	20
305 - DEPUTY	300	300	20	20
306 - OFFICE	175	175	20	20
307 - OFFICE	75	75	20	20
308 - OFFICE	175	175	20	20
309 - OFFICE	75	75	20	20
310 - OFFICE	175	175	20	20
311 - OFFICE	75	75	20	20
312 - BREAK ROOM	230	230	75	75
316 - OFFICE	150	150	20	20
317 - OFFICE	150	150	20	20
319 - DEPUTY	270	270	20	20
320 - OFFICE	150	150	20	20
321 - STOR.	175	175	20	20
322 - OFFICE	120	120	20	20
323 - OFFICE	85	85	20	20
324 - DEPUTY	175	175	20	20
326 - DEPT. HEAD	250	250	25	20
327 - OFFICE	120	120	20	20
328 - DEPUTY	150	150	20	20
329 - OFFICE	75	75	20	20
330 - OFFICE	75	75	20	20
331 - OFFICE	120	120	20	20
332 - OFFICE	75	75	20	20
333 - OFFICE	120	120	20	20
334 - OFFICE	75	75	20	20
335 - OFFICE	120	120	20	20
336 - DEPT. HEAD	325	325	20	20
337 - OFFICE	200	200	20	20
339 - OFFICE	200	200	20	20
341 - OFFICE	75	75	20	20
342 - OFFICE	75	75	20	20
344 - OFFICE	75	75	20	20
345 - OFFICE	75	75	20	20



1 HVAC - 3RD FLOOR PLAN
SCALE: 1/8" = 1'-0"



SCALE: 1/8" = 1' - 0"

GENERAL NOTES

- SEE M-001 & M-002 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS, AND HVAC PIPE LEGEND.
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- REFER TO SPACE AIRFLOWS SCHEDULE FOR AIR TERMINAL TAGS WITHOUT AIRFLOWS.
- REFER TO MP SERIES DRAWINGS FOR LOCATION OF WALL MOUNTED CONTROL SENSORS.

KEYNOTES

- PROVIDE FIRE/SMOKE DAMPER AND DUCT SMOKE DETECTOR AT SHAFT PENETRATIONS. COORDINATE WITH FIRE ALARM CONTRACTOR.
- ROUTE DUCT THROUGH ATTIC. COORDINATE ROUTING WITH TRUSS DESIGN.

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HVAC - 3RD FLOOR PLAN

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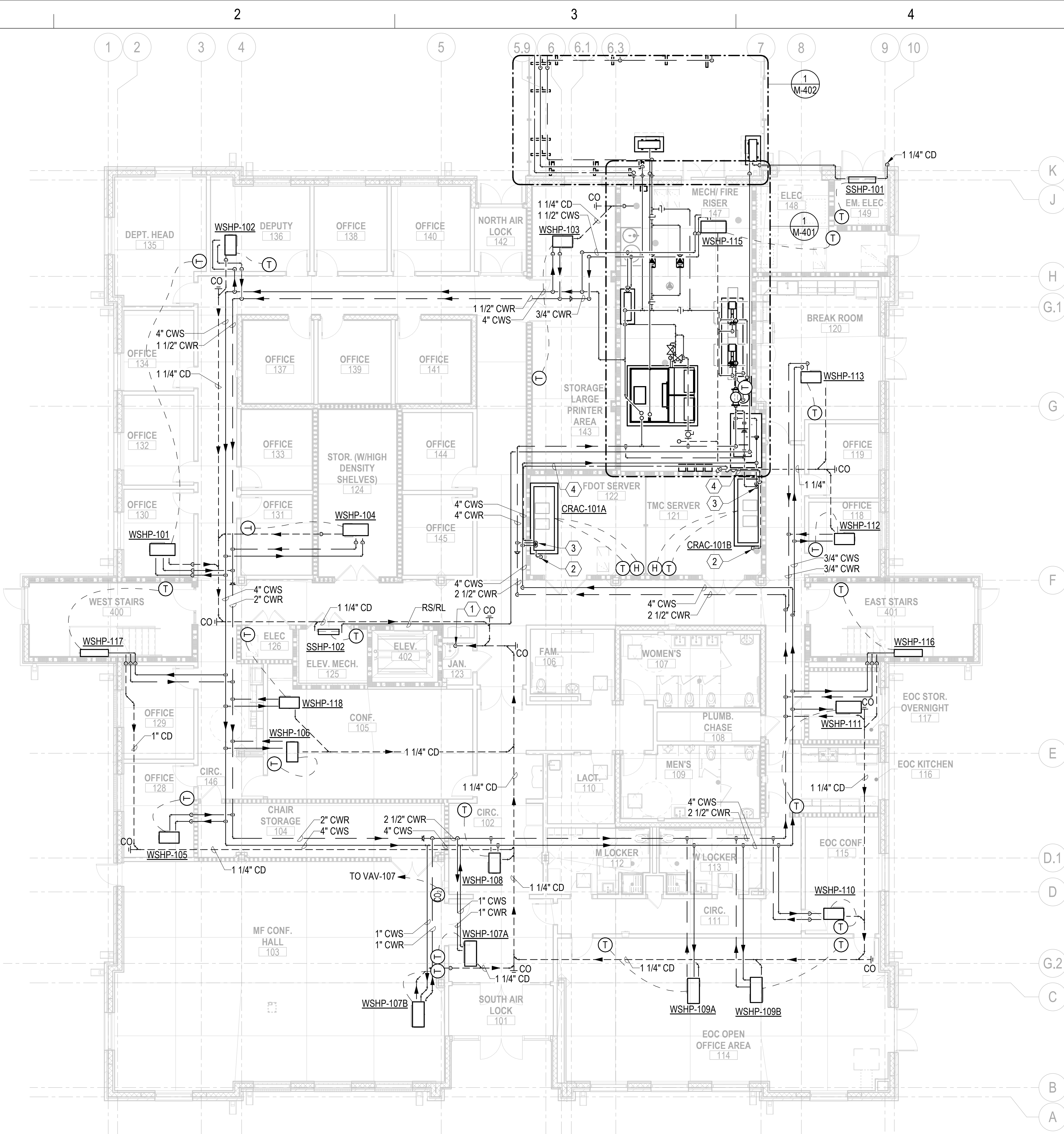
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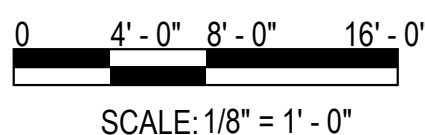
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1 PIPING - 1ST FLOOR PLAN
SCALE: 1/8" = 1'-0"



GENERAL NOTES

- SEE M-001 & M-002 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS, AND HVAC PIPE LEGEND.
- ALL FINAL RUN-OUTS TO EQUIPMENT SHALL 3/4" UNLESS OTHERWISE NOTED.
- PROVIDE AN AIR VENT AT THE HIGH POINT OF EACH DROP IN THE SYSTEM, ALL PIPING SHALL GRADE TO LOW POINTS; PROVIDE HOSE END DRAIN VALVES AT THE BOTTOM OF ALL RISERS AND LOW POINTS.
- INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES AND OTHER APPURTENANCES REQUIRING ACCESS ARE EASILY ACCESSIBLE. PROVIDE ACCESS DOORS/PANELS IN HARD CEILINGS.
- ALL VALVES FOR SHUT OFF/ISOLATION SERVICE, STRAINERS, UNIONS, TRAPS, FLANGES AND OTHER PIPING APPURTENANCES SHALL BE FULL SIZE OF PIPE BEFORE REDUCING TO MAKE CONNECTIONS TO EQUIPMENT AND CONTROLS. CONTROL VALVES AND BALANCING VALVES SHALL BE SIZED FOR PROPER OPERATION AT THE FLOW RATE OF THE DEVICES SERVED.
- UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES, AND IN LONG PIPE RUNS (100' OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATIONS AND REPAIRS.
- INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.
- ROUTE ALL CONDENSATE PIPING AT 1/8" PER 1'-0" SLOPE TOWARD POINT OF TERMINATION. PROVIDE CLEANOUT AT ALL CHANGES OF DIRECTION GREATER THAN 45°.

KEYNOTES

- 1 1/4" CD DOWN TO MOP RECEPTOR. TERMINATE PIPE OPEN ENDED APPROXIMATELY 3" ABOVE RECEPTOR.
- 1 1/4" CD TO FLOOR DRAIN. TERMINATE APPROX 1" ABOVE DRAIN COVER.
- ROUTE 2 1/2" CWS/R AND 1/2" CW TO CRAC UNIT.
- 1/2" CW MAKEUP FROM BACKFLOW PREVENTER TO CRAC UNIT HUMIDIFIER MAKEUP. REFER TO PLUMBING DRAWINGS FOR CONTINUATION AND FOR BACKFLOW PREVENTER INFORMATION.

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PIPING - 1ST FLOOR PLAN

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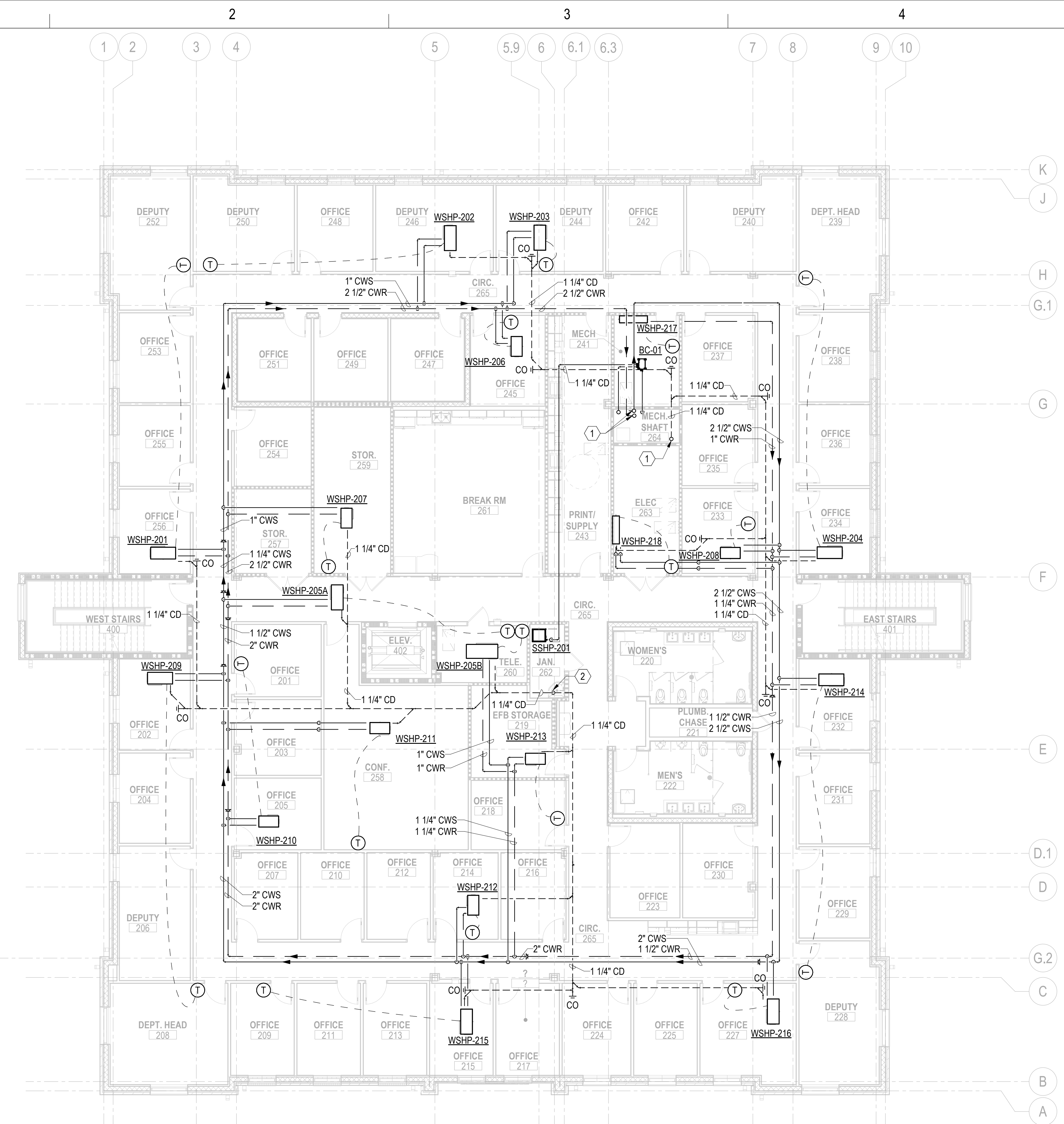
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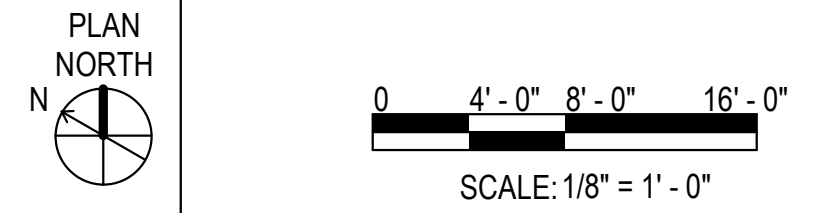
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1 PIPING - 2ND FLOOR PLAN
SCALE: 1/8" = 1'-0"



GENERAL NOTES

- SEE M-001 & M-002 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS, AND HVAC PIPE LEGEND.
- ALL FINAL RUN-OUTS TO EQUIPMENT SHALL 3/4" UNLESS OTHERWISE NOTED.
- PROVIDE AN AIR VENT AT THE HIGH POINT OF EACH DROP IN THE SYSTEM, ALL PIPING SHALL GRADE TO LOW POINTS; PROVIDE HOSE END DRAIN VALVES AT THE BOTTOM OF ALL RISERS AND LOW POINTS.
- INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES AND OTHER APPURTENANCES REQUIRING ACCESS ARE EASILY ACCESSIBLE. PROVIDE ACCESS DOORS/PANELS IN HARD CEILINGS.
- ALL VALVES FOR SHUT OFF/ISOLATION SERVICE, STRAINERS, UNIONS, TRAPS, FLANGES AND OTHER PIPING APPURTENANCES SHALL BE FULL SIZE OF PIPE BEFORE REDUCING TO MAKE CONNECTIONS TO EQUIPMENT AND CONTROLS. CONTROL VALVES AND BALANCING VALVES SHALL BE SIZED FOR PROPER OPERATION AT THE FLOW RATE OF THE DEVICES SERVED.
- UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES, AND IN LONG PIPE RUNS (100' OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATIONS AND REPAIRS.
- INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.
- ROUTE ALL CONDENSATE PIPING AT 1/8" PER 1'-0" SLOPE TOWARD POINT OF TERMINATION. PROVIDE CLEANOUT AT ALL CHANGES OF DIRECTION GREATER THAN 45°.

KEYNOTES

- ALL PIPING ROUTED WITHIN MECHANICAL SHAFT AND MECHANICAL ROOM MUST BE NONCOMBUSTIBLE MATERIAL. PVC OR OTHER PLASTIC PIPING MUST NOT BE INSTALLED WITHIN THE SHAFT.
- 1 1/4" CD DOWN TO MOP RECEPTOR. TERMINATE PIPE OPEN ENDED APPROXIMATELY 3" ABOVE RECEPTOR.

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PIPING - 2ND FLOOR PLAN

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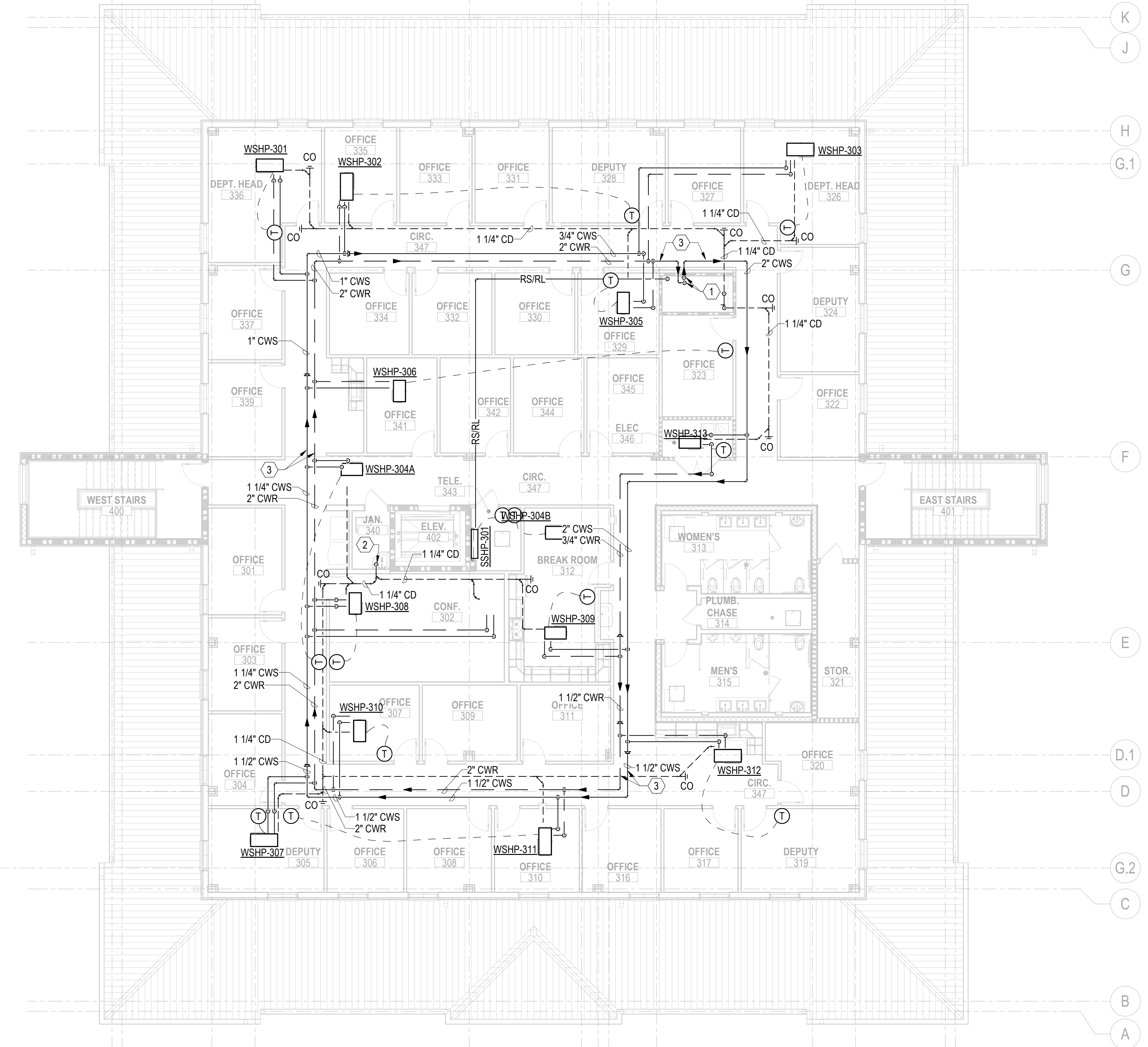
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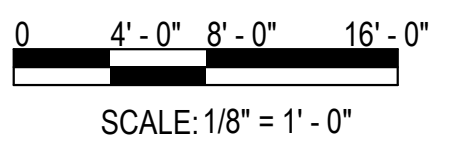
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1 PIPING - 3RD FLOOR PLAN
SCALE: 1/8" = 1'-0"



GENERAL NOTES

- SEE M-001 & M-002 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS, AND HVAC PIPE LEGEND.
- ALL FINAL RUN-OUTS TO EQUIPMENT SHALL 3/4" UNLESS OTHERWISE NOTED.
- PROVIDE AN AIR VENT AT THE HIGH POINT OF EACH DROP IN THE SYSTEM, ALL PIPING SHALL GRADE TO LOW POINTS; PROVIDE HOSE END DRAIN VALVES AT THE BOTTOM OF ALL RISERS AND LOW POINTS.
- INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES AND OTHER APPURTENANCES REQUIRING ACCESS ARE EASILY ACCESSIBLE. PROVIDE ACCESS DOORS/PANELS IN HARD CEILINGS.
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- INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.
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KEYNOTES

- ALL PIPING ROUTED WITHIN MECHANICAL SHAFT AND MECHANICAL ROOM MUST BE NONCOMBUSTIBLE MATERIAL. PVC OR OTHER PLASTIC PIPING MUST NOT BE INSTALLED WITHIN THE SHAFT.
- 1 1/4" CD DOWN TO MOP RECEPTOR. TERMINATE PIPE OPEN ENDED APPROXIMATELY 3" ABOVE RECEPTOR.
- ROUTE CWS/R PIPING THROUGH ATTIC. COORDINATE ROUTING WITH TRUSS DESIGN.

Michael Baker

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PIPING - 3RD FLOOR PLAN

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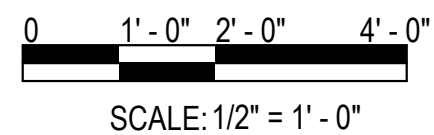
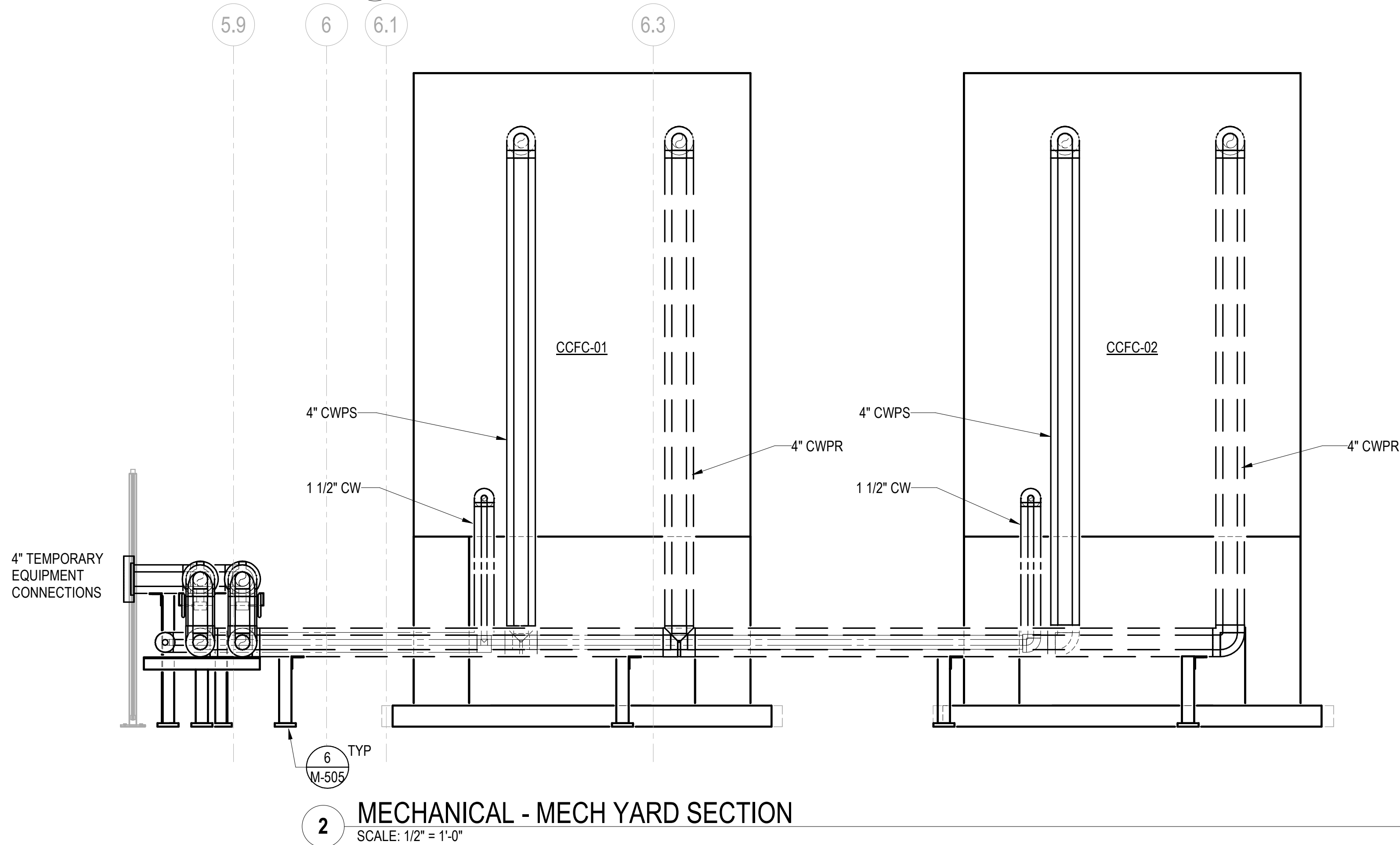
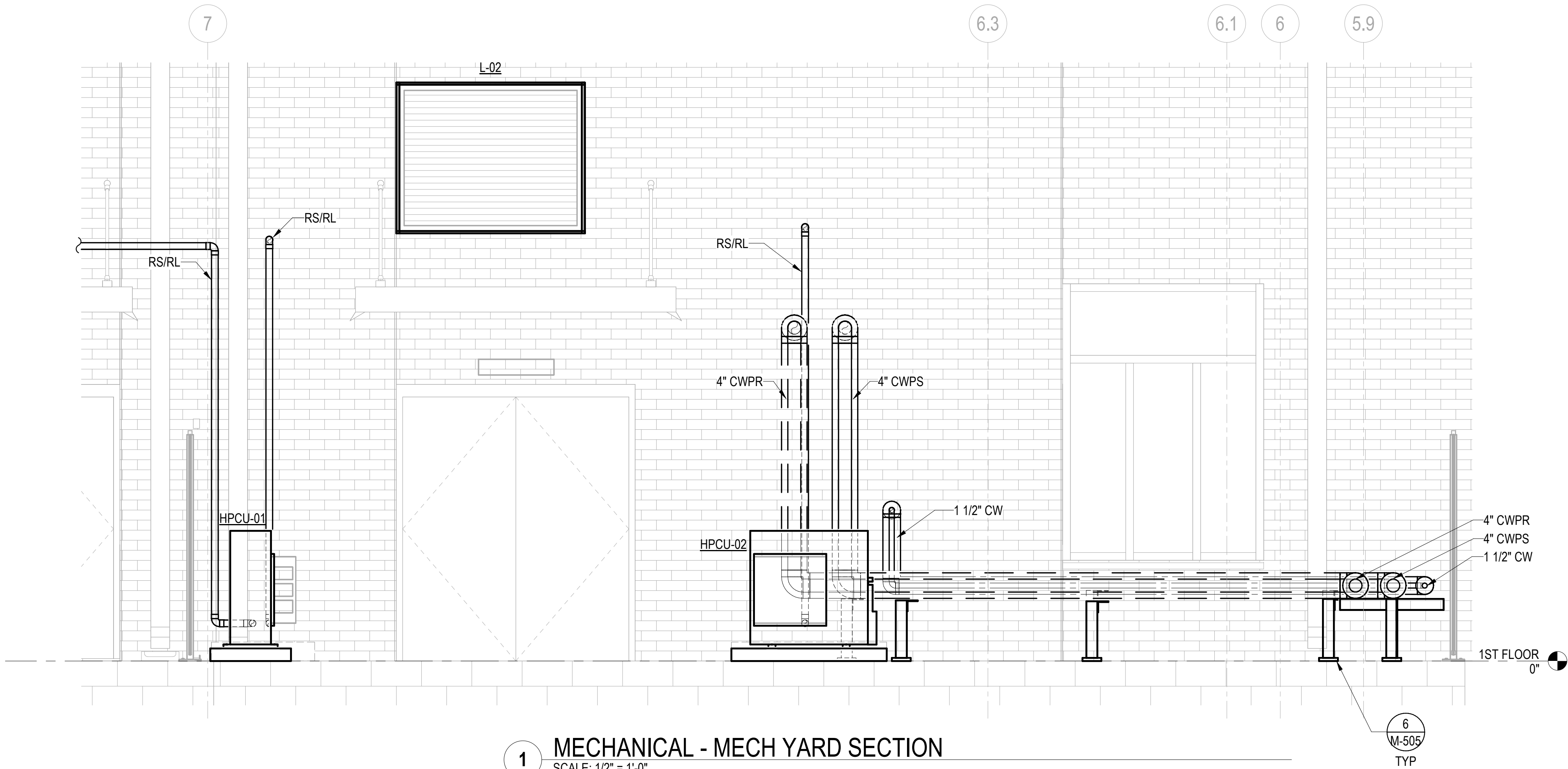
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MECHANICAL - SECTIONS

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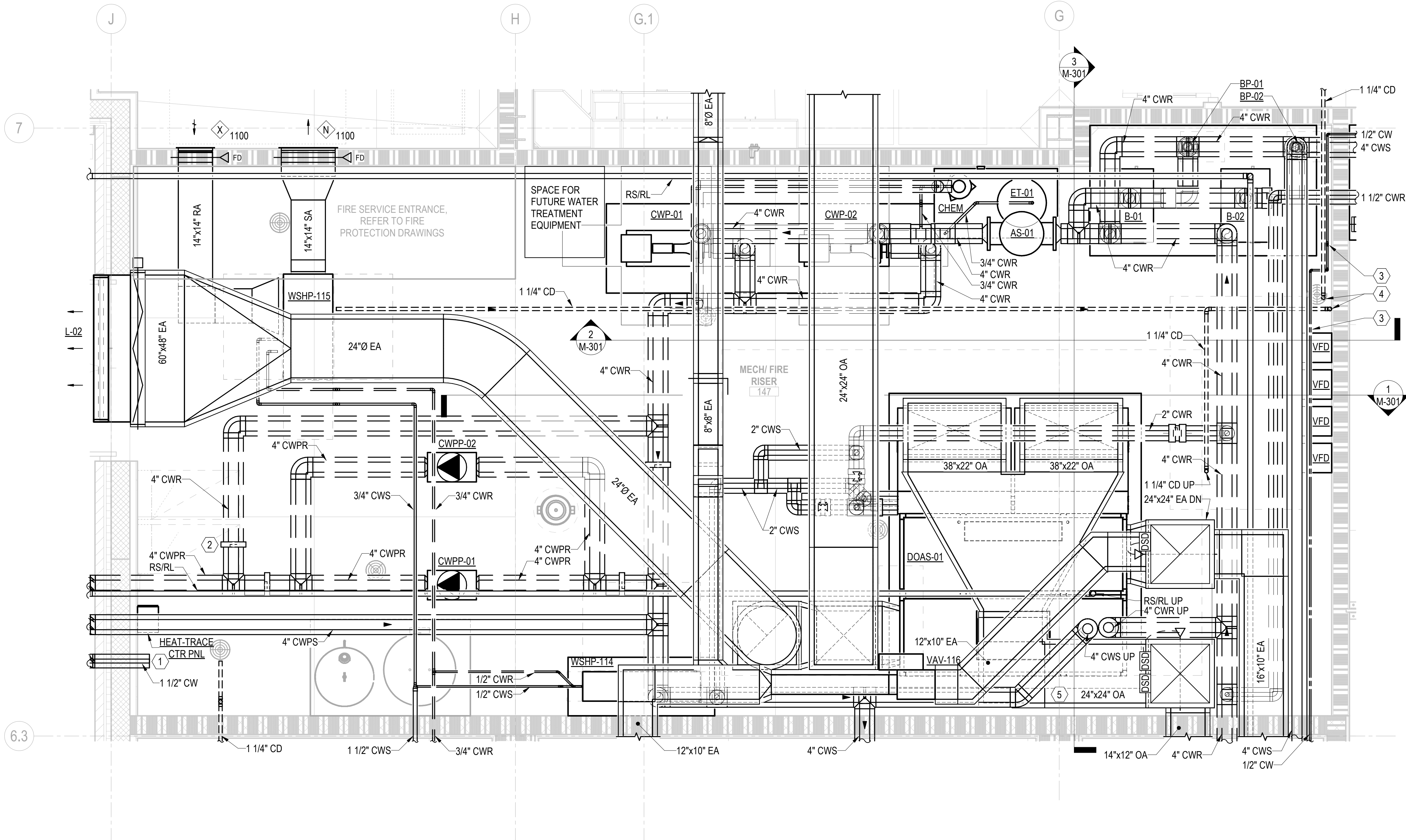
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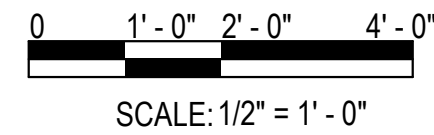
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1 ENLARGED MECHANICAL ROOM PLAN

SCALE: 1/2" = 1'-0"



SCALE: 1/2" = 1' - 0"

GENERAL NOTES

- SEE M-001 & M-002 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS, AND HVAC PIPE LEGEND.
- SEE M-702 PIPING DIAGRAM FOR ADDITIONAL PIPE SIZES.

KEYNOTES

- CW MAKEUP TO CCFCs. CONNECT TO CW PIPING FROM BACKFLOW PREVENTER, REFER TO PLUMBING DRAWINGS FOR CONTINUATION.
- MANUAL BUTTERFLY VALVE, NORMALLY CLOSED. VALVE TO BE OPENED ONLY WHEN UTILIZING TEMPORARY HEATING/COOLING PLANT EQUIPMENT.
- 1/2" CW MAKEUP FROM BACKFLOW PREVENTER TO CRAC UNIT HUMIDIFIER MAKEUP. REFER TO PLUMBING DRAWINGS FOR CONTINUATION AND FOR BACKFLOW PREVENTER INFORMATION.
- 1 1/4" CD TO FLOOR DRAIN. TERMINATE APPROX 1" ABOVE DRAIN COVER.
- PROVIDE DUCT SMOKE DETECTOR IN SUPPLY AND EXHAUST DUCTWORK TO/FROM DOAS-01. LOCATE SMOKE DETECTOR BETWEEN DOAS-01 DUCT CONNECTIONS AND THE CLOSEST CONNECTION. REFER TO FIRE ALARM CONSTRUCTION DOCUMENTS FOR ADDITIONAL INFORMATION.

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MECHANICAL - ENLARGED PLAN

Project Number:
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Date:
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PHASE IV - FINAL DESIGN SUBMITTAL

A

B

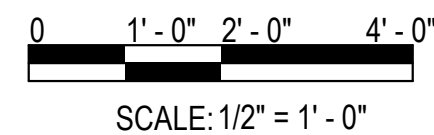
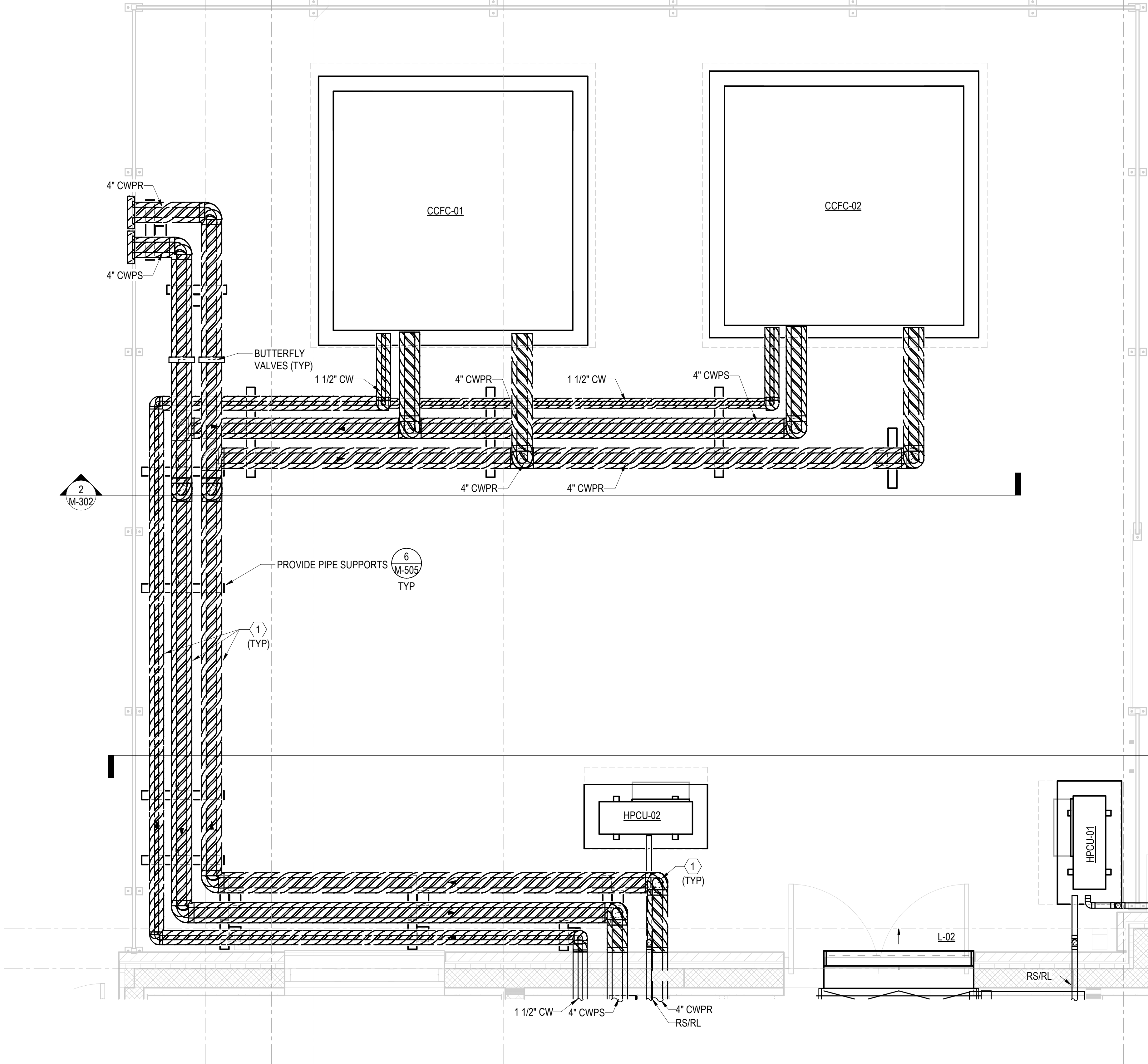
C

D

1 ENLARGED MECHANICAL YARD PLAN

SCALE: 1/2" = 1'-0"

1



SCALE: 1/2" = 1' - 0"

GENERAL NOTES

- SEE M-001 & M-002 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS, AND HVAC PIPE LEGEND.
- SEE M-702 PIPING DIAGRAM FOR ADDITIONAL PIPE SIZES.

KEYNOTES

- PROVIDE HEAT TRACE ON EXTERIOR CWS, CWR, AND CW PIPING.

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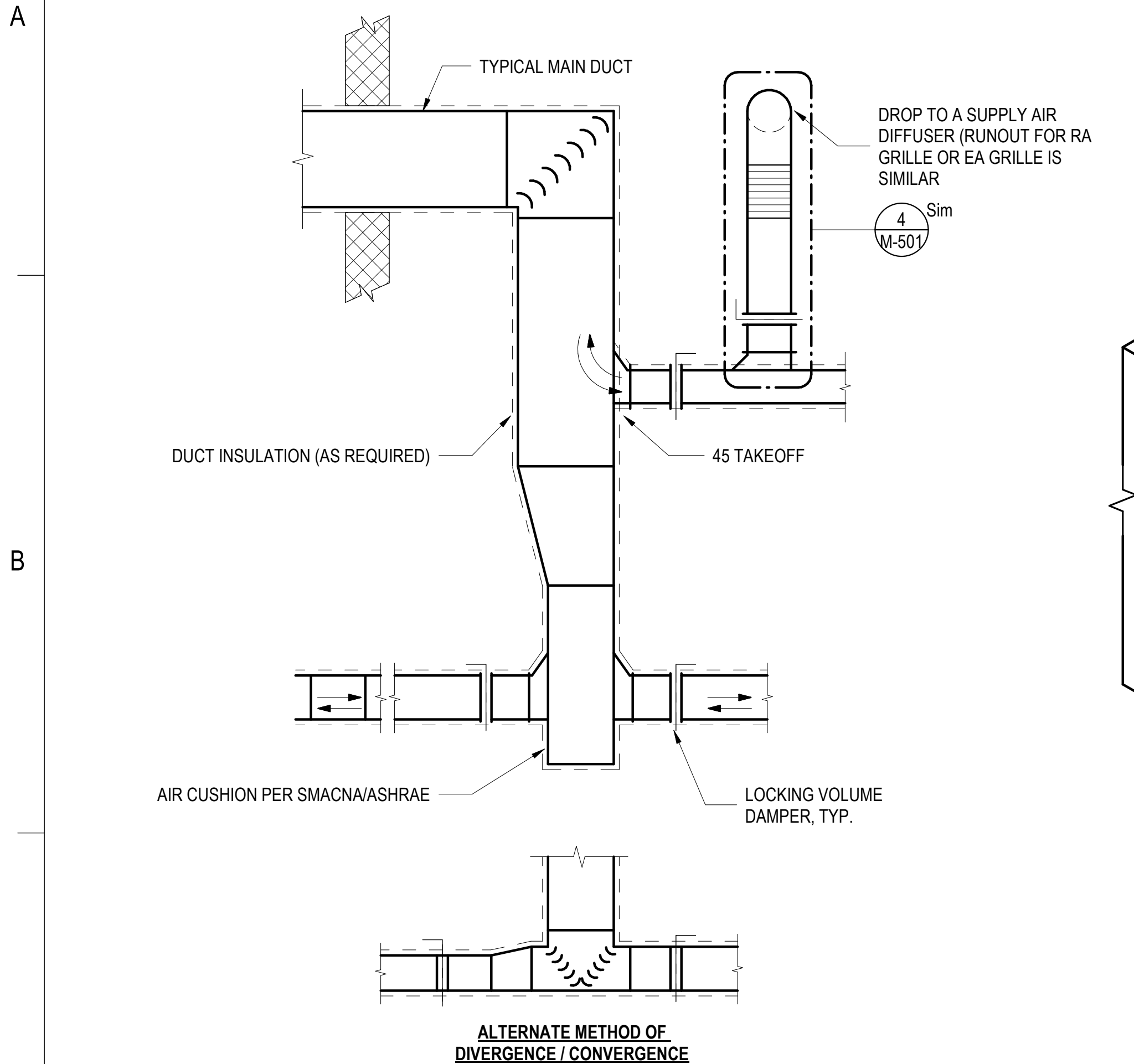
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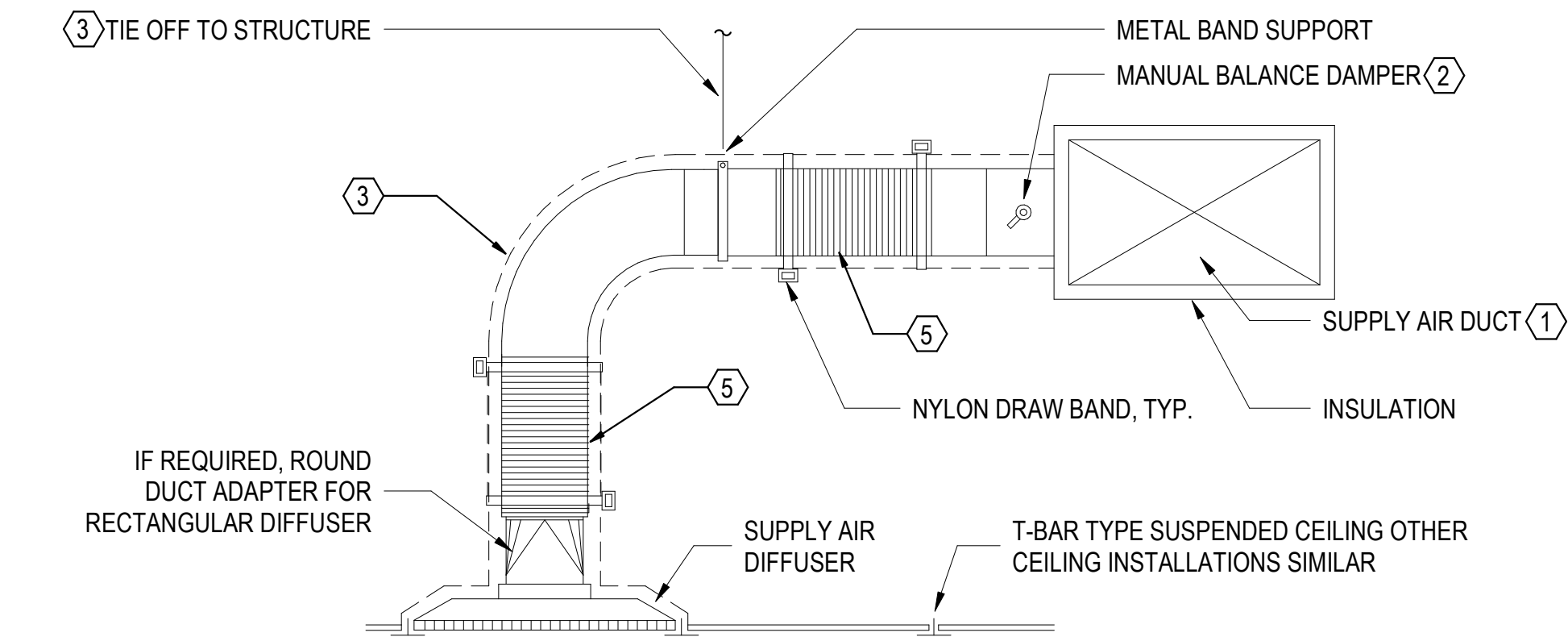
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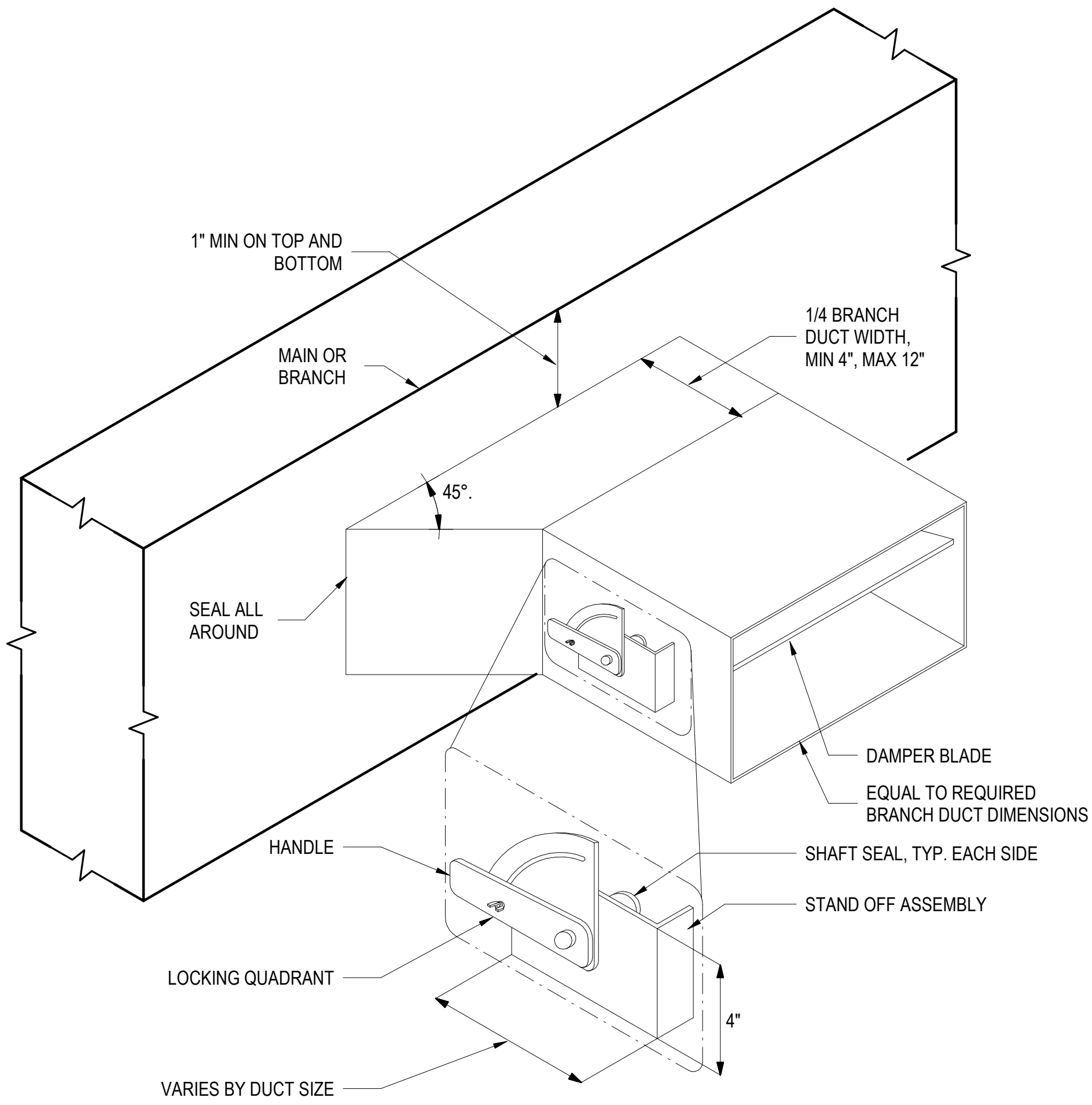


1 TYPICAL SUPPLY OR RETURN DUCT
SCALE:NTS



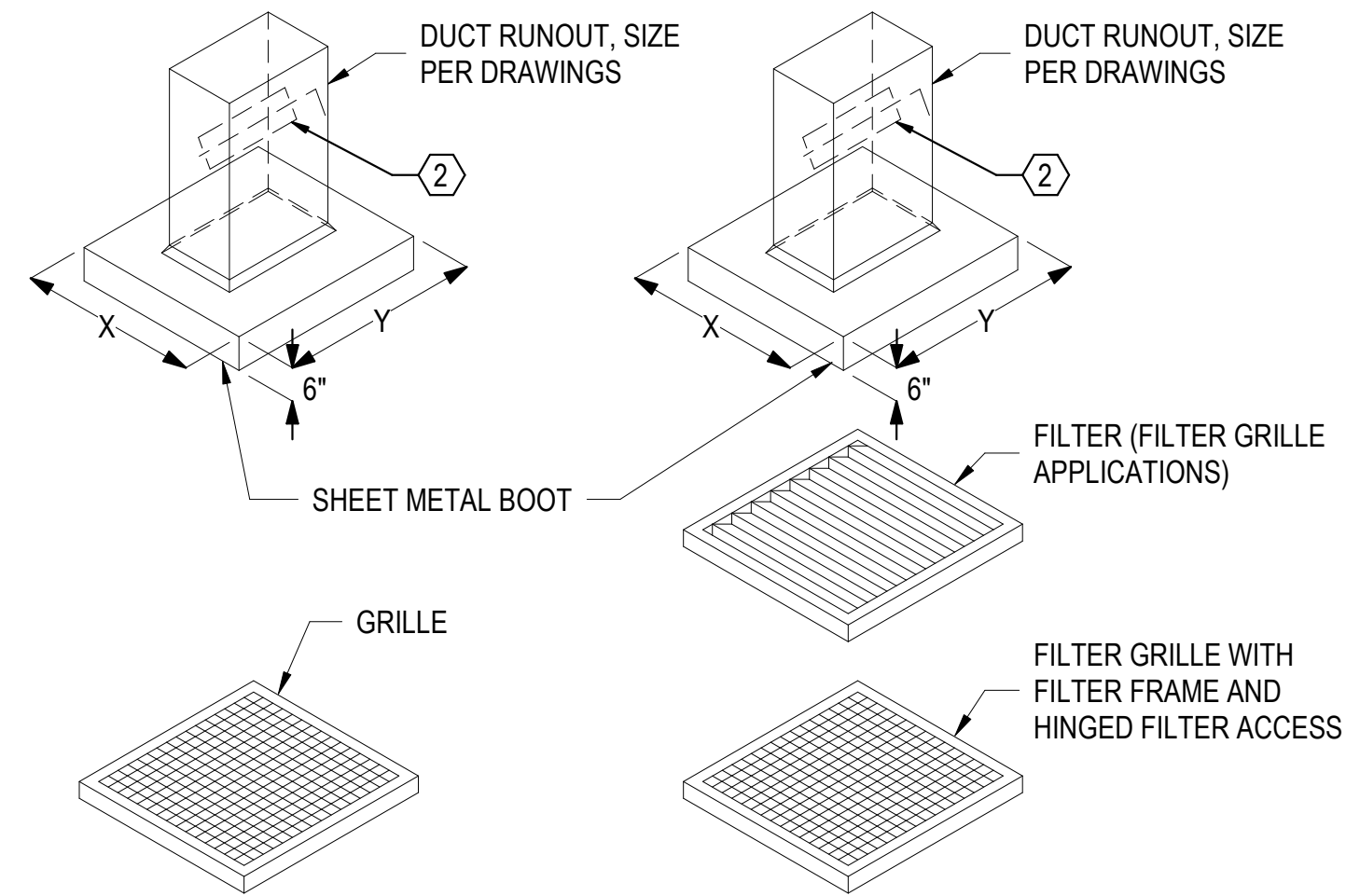
- NOTES:**
1. RECTANGULAR MAIN DUCT SHOWN, INSTALLATION WITH ROUND MAIN DUCT IS SIMILAR.
 2. IF SPIN-IN TAKE-OFFS ARE NOT USED AND EXPANDED TAKE-OFFS ARE USED, INSTALL DAMPER AFTER TAKE-OFF PER SMACNA.
 3. PROVIDE PROPER INSTALLATION AND SUPPORT PER SMACNA AND FLEX DUCT PER MFR'S RECOMMENDATIONS FOR NO KINKING OR SIGNIFICANT AREA REDUCTION.
 4. PROVIDE INSULATION ON ALL DUCT AND ON THE BACK OF ALL SUPPLY AIR DIFFUSERS.
 5. MAX 5 FT LENGTH OF FLEXIBLE DUCT FULLY EXTENDED. FLEXIBLE DUCT MAY BE IN VERTICAL SEGMENT BETWEEN ELBOW AND DIFFUSER. DO NOT INSTALL FLEX DUCT IN BOTH LOCATIONS.

4 SUPPLY AIR DIFFUSER HARD ELBOW W/ FLEX
SCALE: NTS



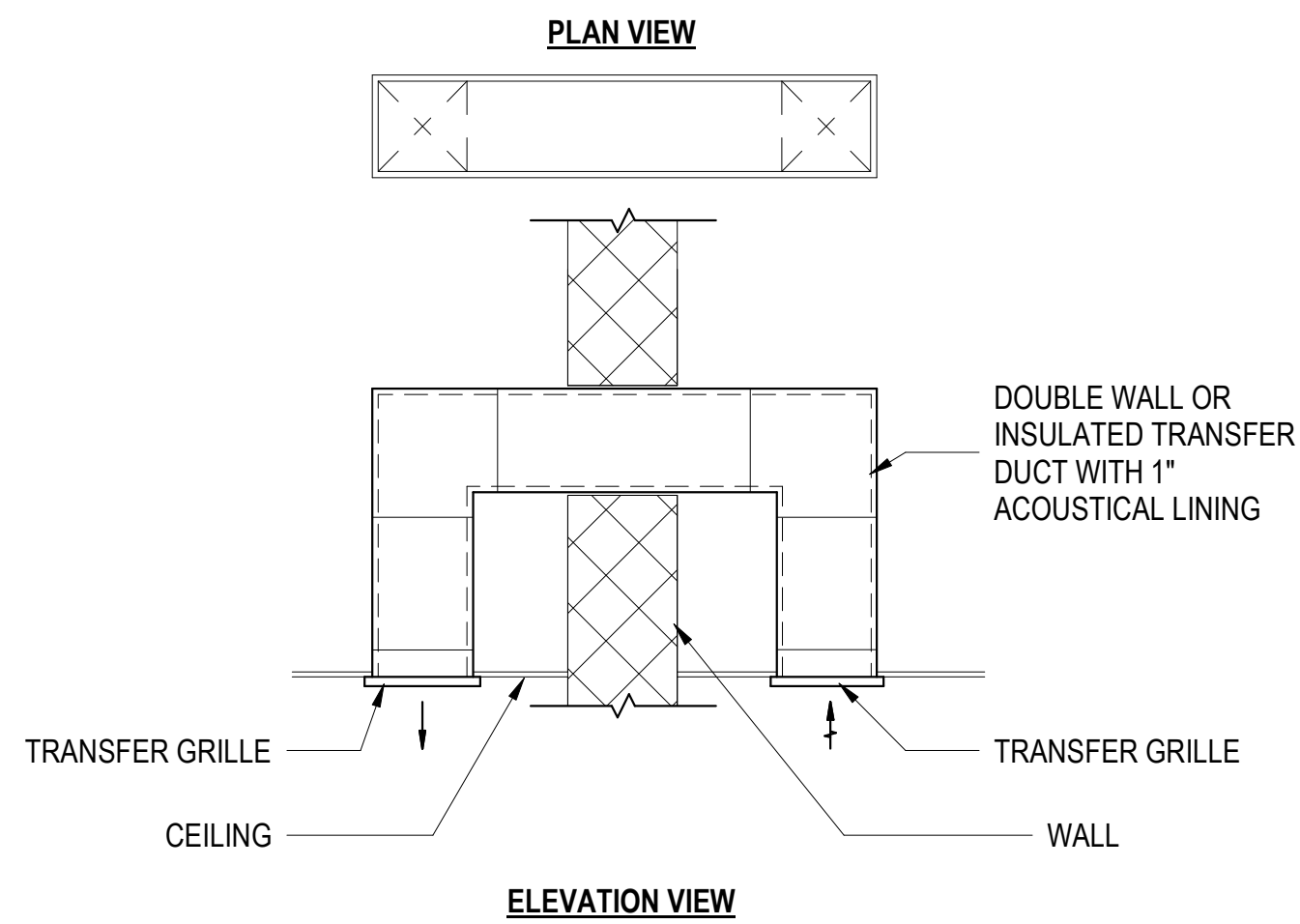
- NOTES:**
1. PROVIDE WITH LOCKING MANUAL BALANCING VOLUME DAMPER. COORDINATE DAMPER LOCATION WITH PLANS.
 2. SINGLE BLADE DAMPER SHOWN. MULTIPLE BLADE DAMPER IS SIMILAR.
 3. ROUND BRANCH TAKEOFF IS SIMILAR.

2 TYPICAL BRANCH DUCT TAKEOFF FITTING
SCALE:NTS



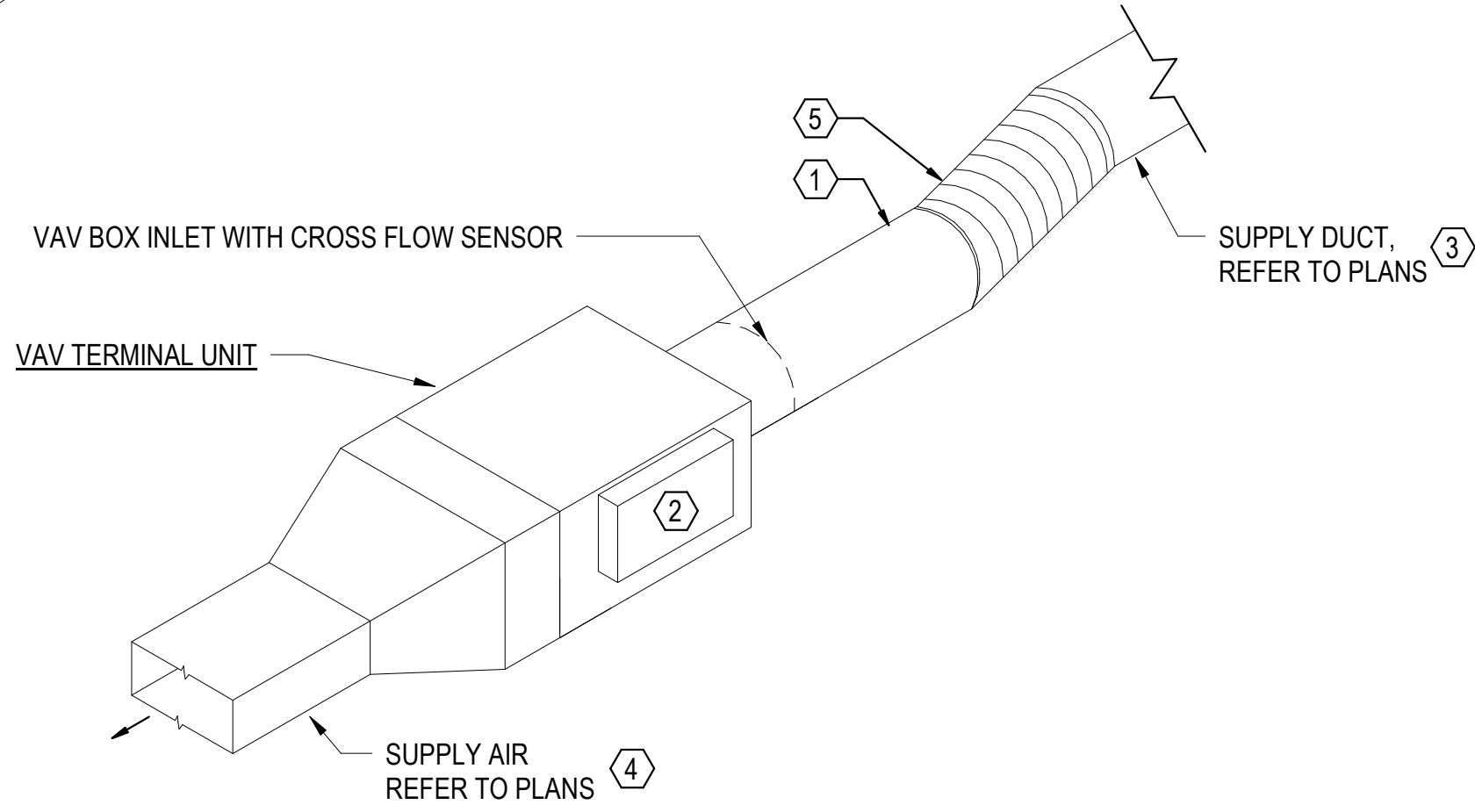
- NOTES:**
1. REFER TO GRILLE, REGISTER AND DIFFUSER SCHEDULE FOR X & Y DUCT NECK SIZE CONNECTION TO RETURN GRILLE.
 2. WHERE CFM IS SHOWN ON PLANS, DAMPER SHALL BE PLACED IN RETURN / EXHAUST DUCTWORK LOCATION SHOWN ON PLANS.

5 DUCTED RETURN AIR CONNECTION
SCALE:NTS



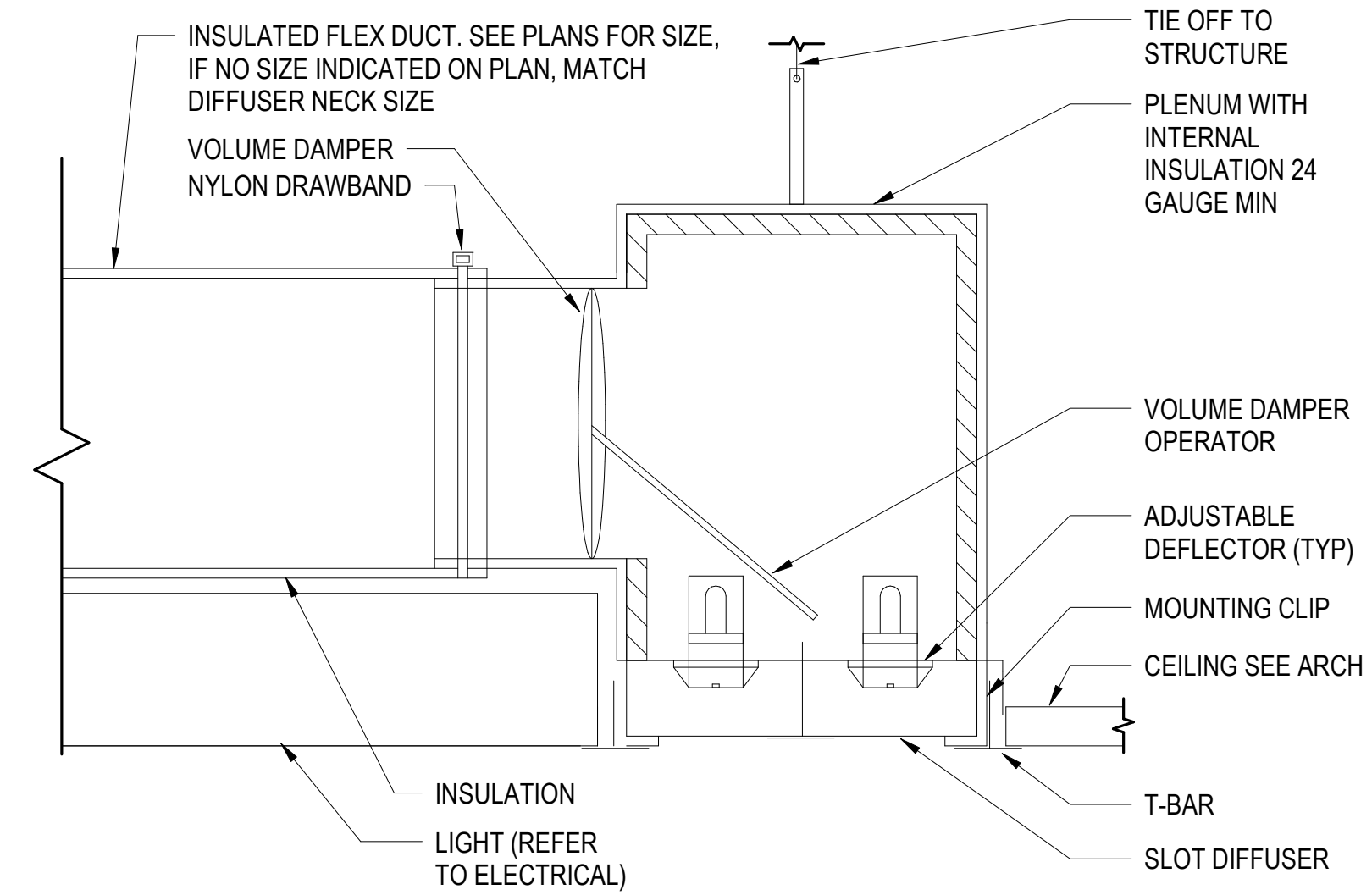
- NOTES:**
1. SIZE OF TRANSFER DUCT SHOWN ON PLAN INDICATES ACTUAL CLEAR INSIDE DIMENSIONS.

3 TRANSFER DUCT LINED THRU FULL HT WALL
SCALE:NTS



- KEYNOTES:**
1. PROVIDE A MINIMUM OF 6 DUCT DIAMETERS OF STRAIGHT RIGID DUCT BEFORE VAV BOX INLET CONNECTION.
 2. PROVIDE A MINIMUM OF 3 FT CLEARANCE IN FRONT OF THE ELECTRICAL PANEL.
 3. TRANSITION DUCTWORK SIZE INDICATED ON PLANS IF PLAN SIZE VARIES FROM VAV BOX OUTLET SIZE.
 4. PROVIDE 4 FT TO FIRST BRANCH TAKEOFF.
 5. MAX 6 IN FLEXIBLE CONNECTION FOR BOX POSITION.

6 VAV TERMINAL UNIT
SCALE:NTS



7 SUPPLY AIR DIFFUSER LINEAR SLOT
SCALE:NTS

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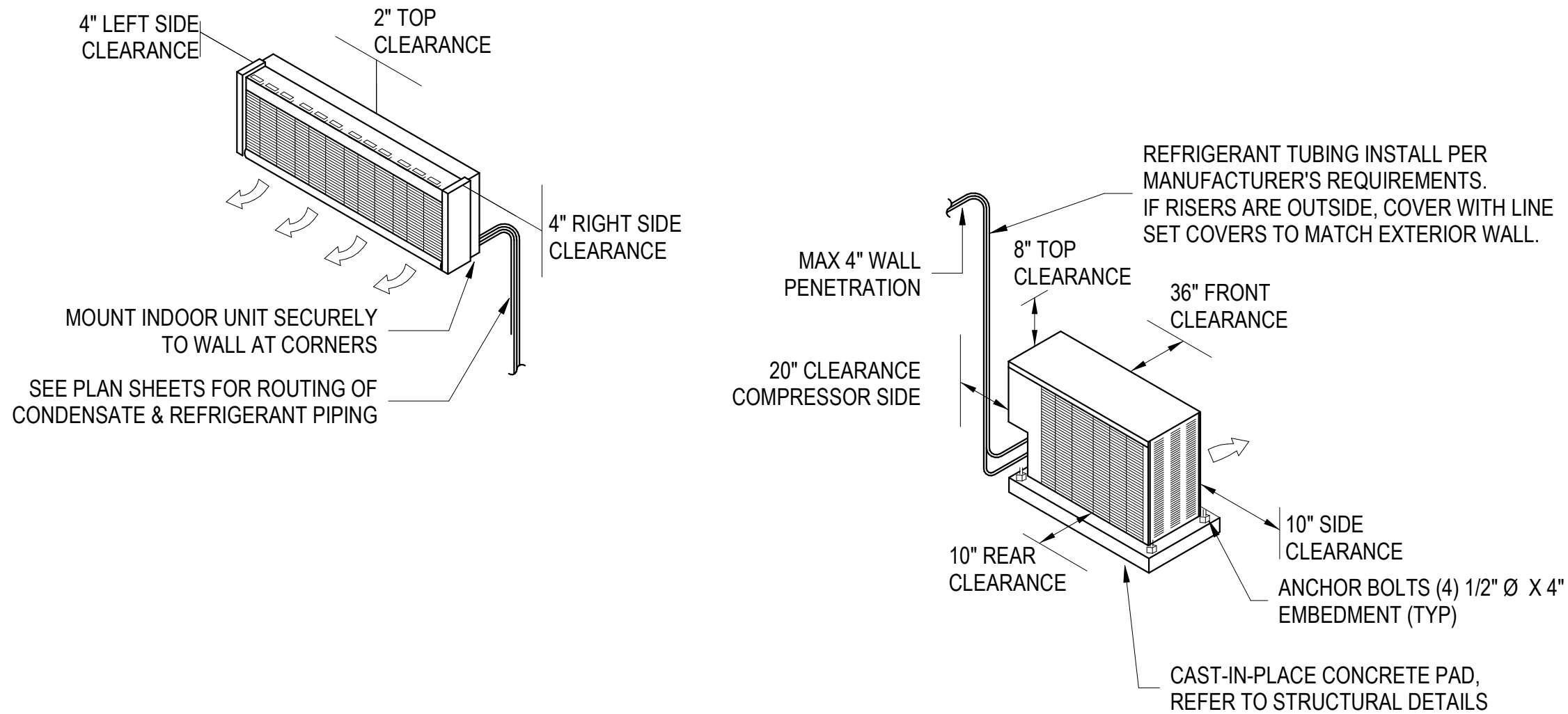
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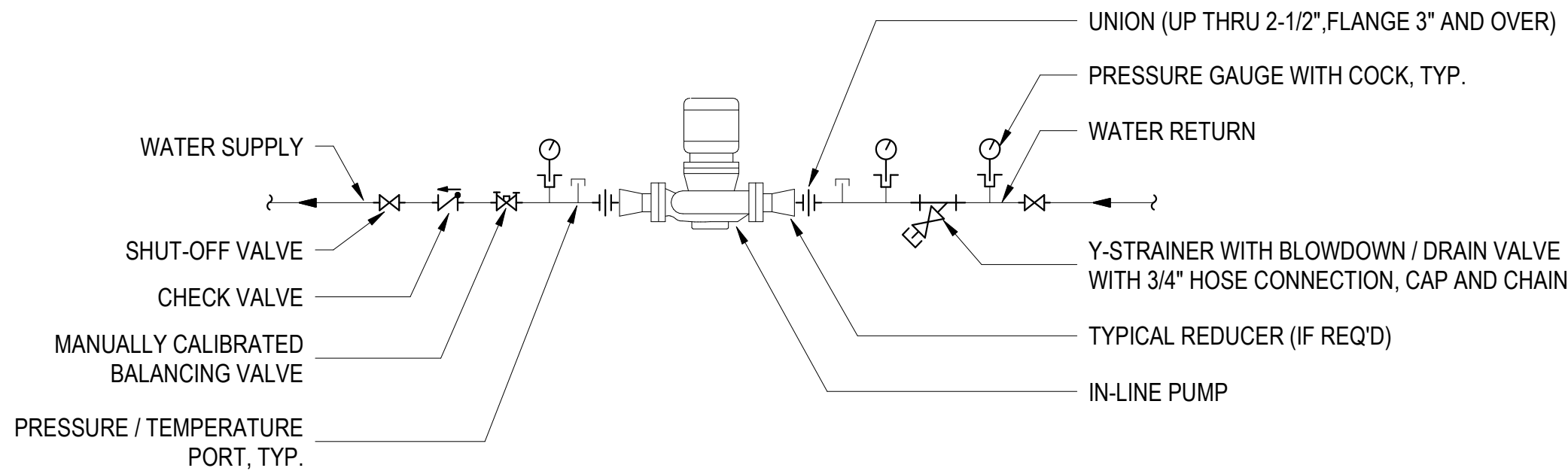
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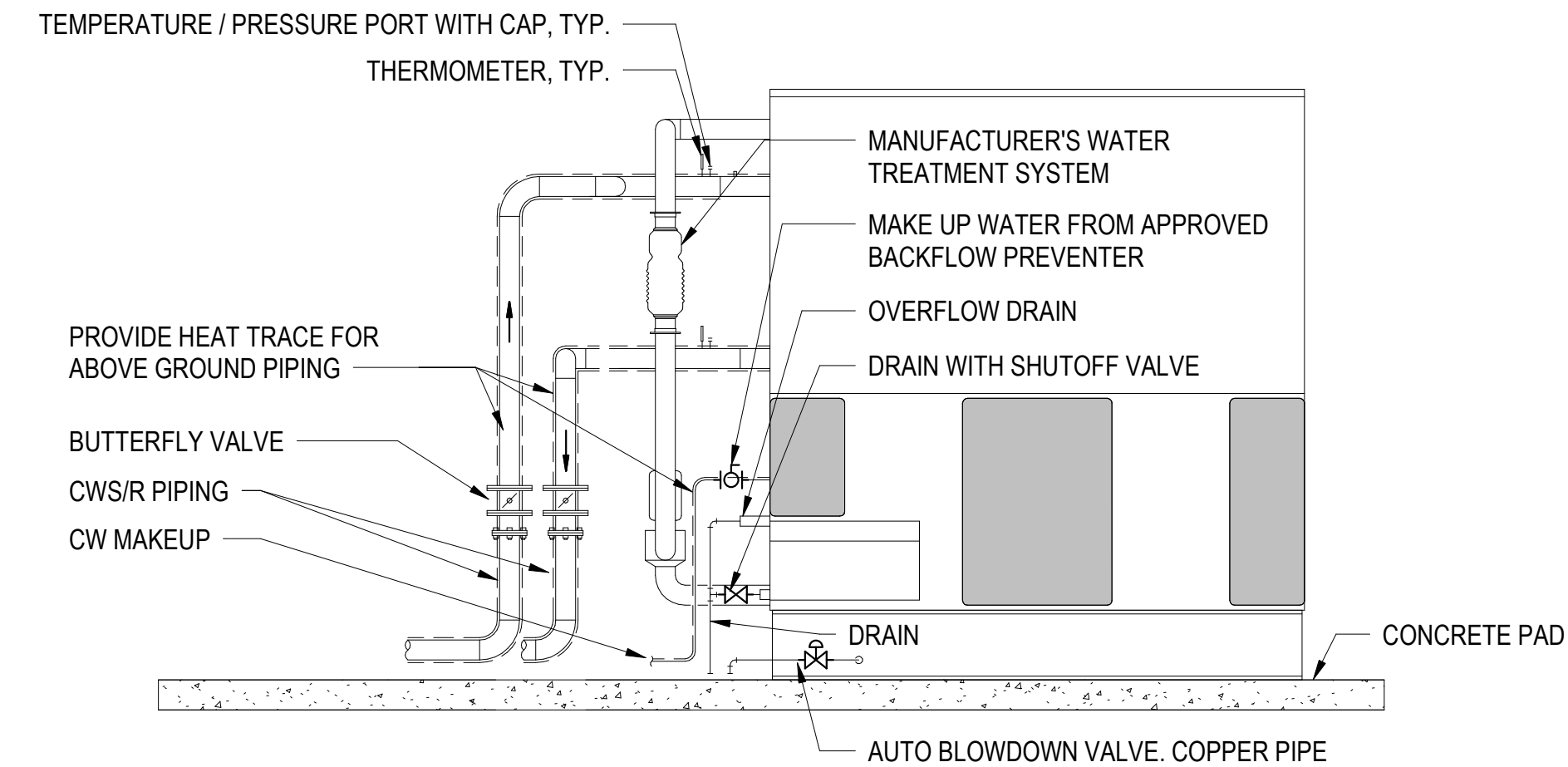
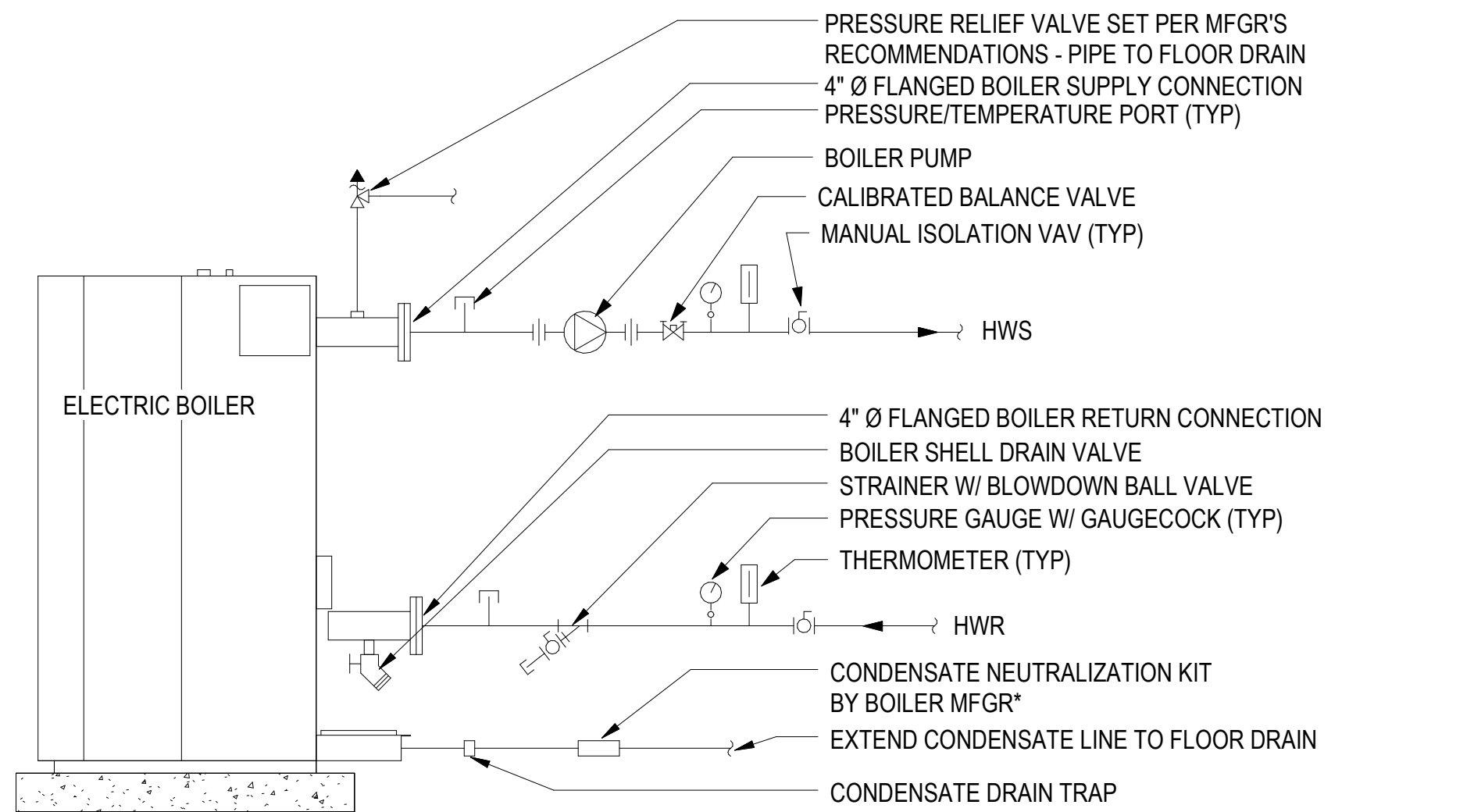


1 SPLIT SYSTEM AIR CONDITIONING UNIT (DUCTLESS)
SCALE: 3/8" = 1'-0"



- NOTES:**
1. SUPPORT PUMP FROM WALL, FLOOR, OR STEEL, DO NOT PIPE SUPPORT.
 2. PUMP INSTALLATION IS DIAGRAMMATIC AND INTENDED TO SHOW THE MAJOR COMPONENTS REQUIRED FOR INSTALLATION. THE INSTALLED PIPING CONFIGURATION MUST BE BASED ON THE ACTUAL PUMP PROVIDED. THE CONTRACTOR WILL SUBMIT FOR APPROVAL A COORDINATION DRAWING SHOWING PUMP, PIPING, AND ACCESSORIES AS REQUIRED BY THIS INSTALLATION DETAIL.

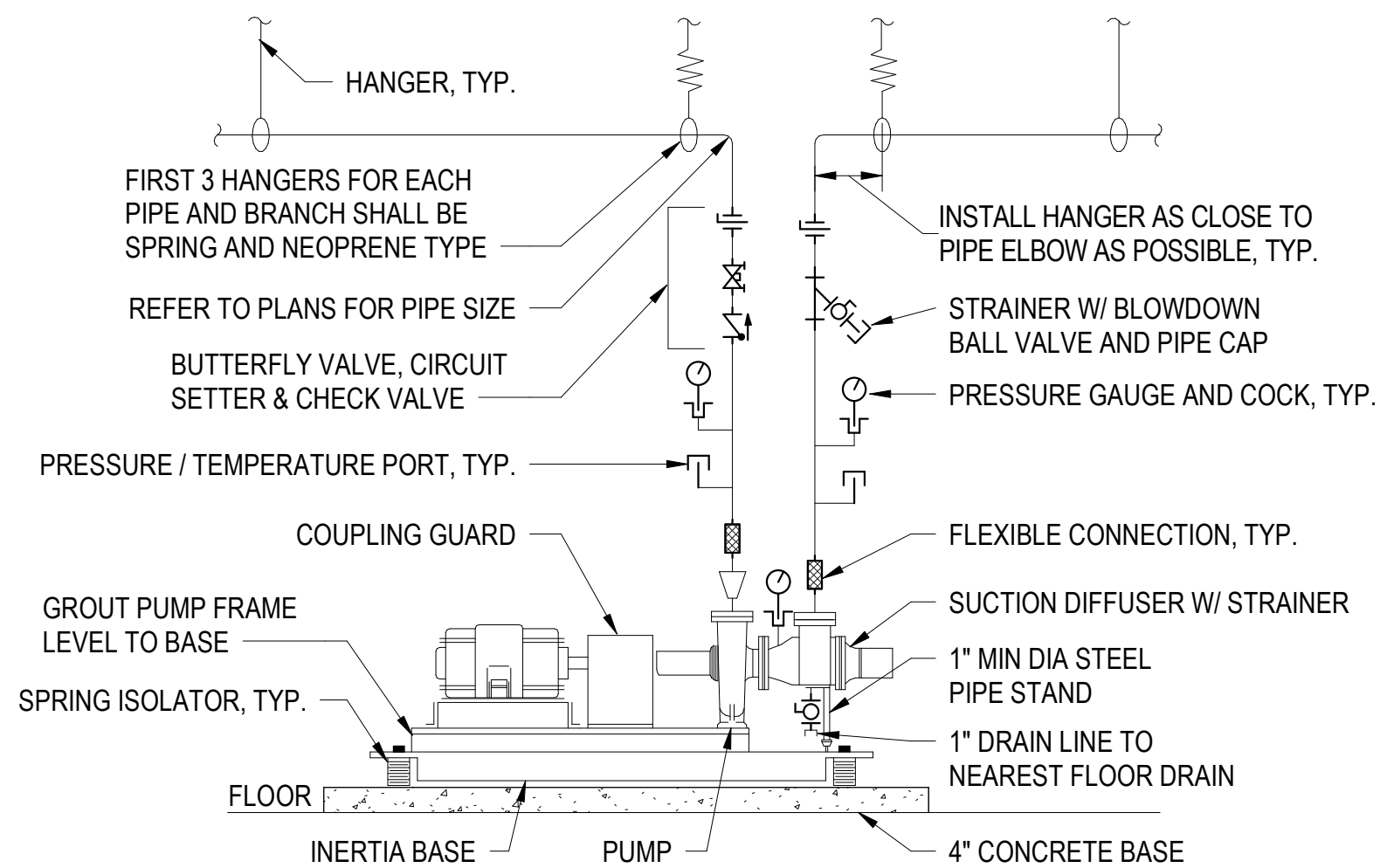
3 PUMP - INLINE
SCALE: NTS



*MULTIPLE BOILERS MAY BE CONNECTED TO COMMON CONDENSATE NEUTRALIZATION KIT IF PERMITTED BY BOILER MANUFACTURER

5 BOILER PIPING DETAIL
SCALE: NTS

2 CLOSED CIRCUIT FLUID COOLER
SCALE: NTS



- NOTES:**
1. SEE SPECIFICATION SECTION "PUMPS" FOR Y STRAINER OPTION.
 2. PUMP INSTALLATION IS DIAGRAMMATIC AND INTENDED TO SHOW THE MAJOR COMPONENTS REQUIRED FOR INSTALLATION. THE INSTALLED PIPING CONFIGURATION MUST BE BASED ON THE ACTUAL PUMP PROVIDED. THE CONTRACTOR WILL SUBMIT FOR APPROVAL A COORDINATION DRAWING SHOWING PUMP, PIPING, AND ACCESSORIES AS REQUIRED BY THIS INSTALLATION DETAIL.

4 PUMP - BASE MOUNTED SINGLE SUCTION
SCALE: NTS

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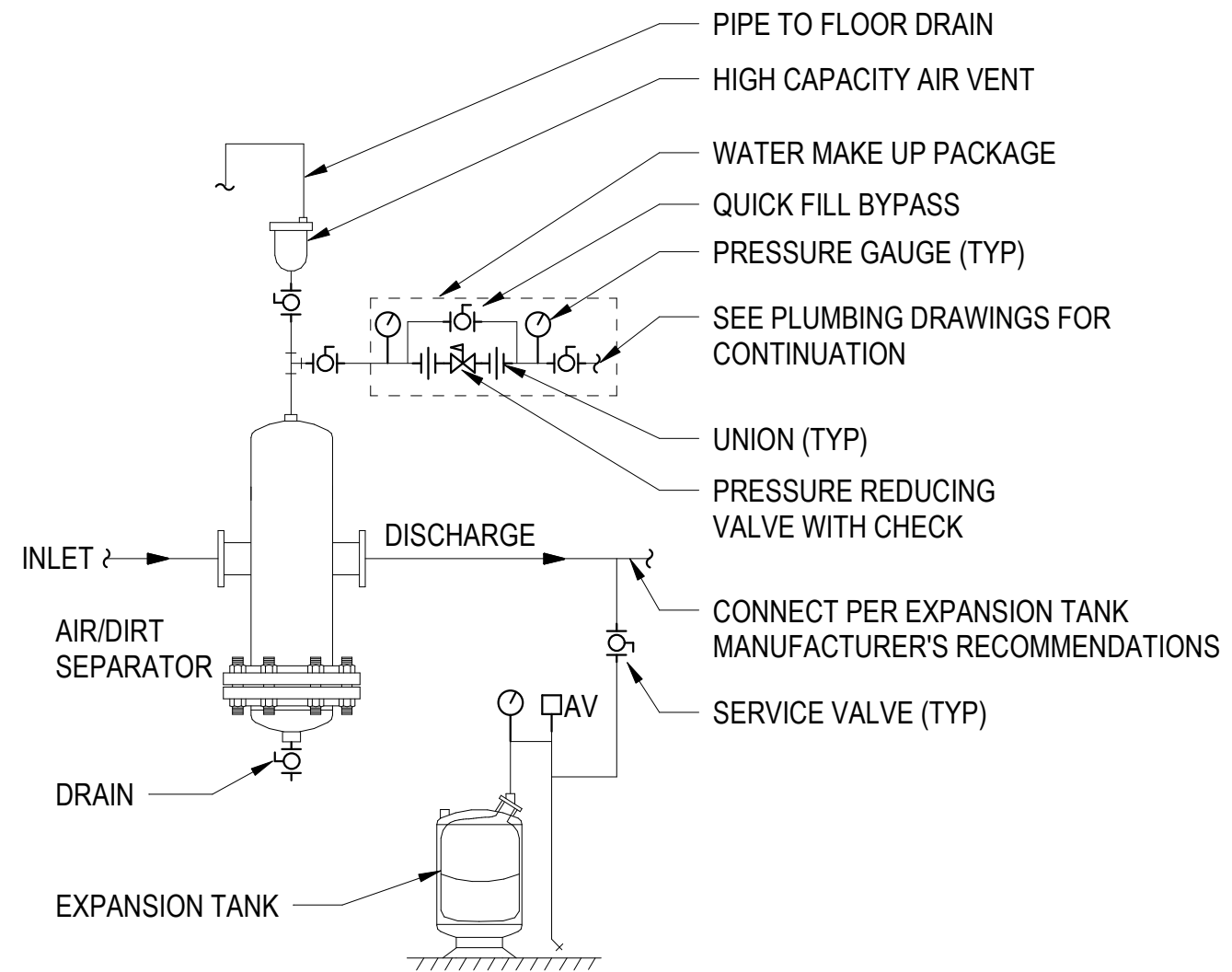
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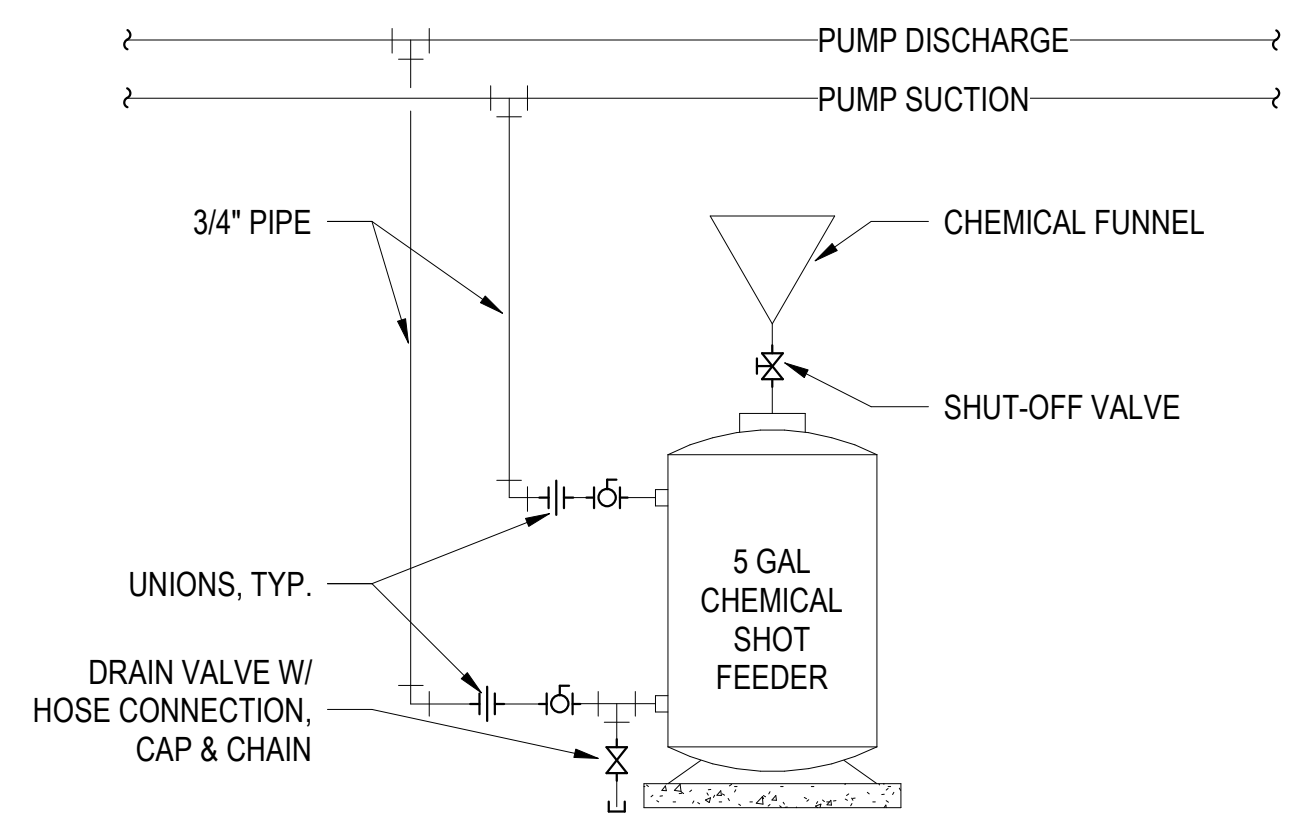
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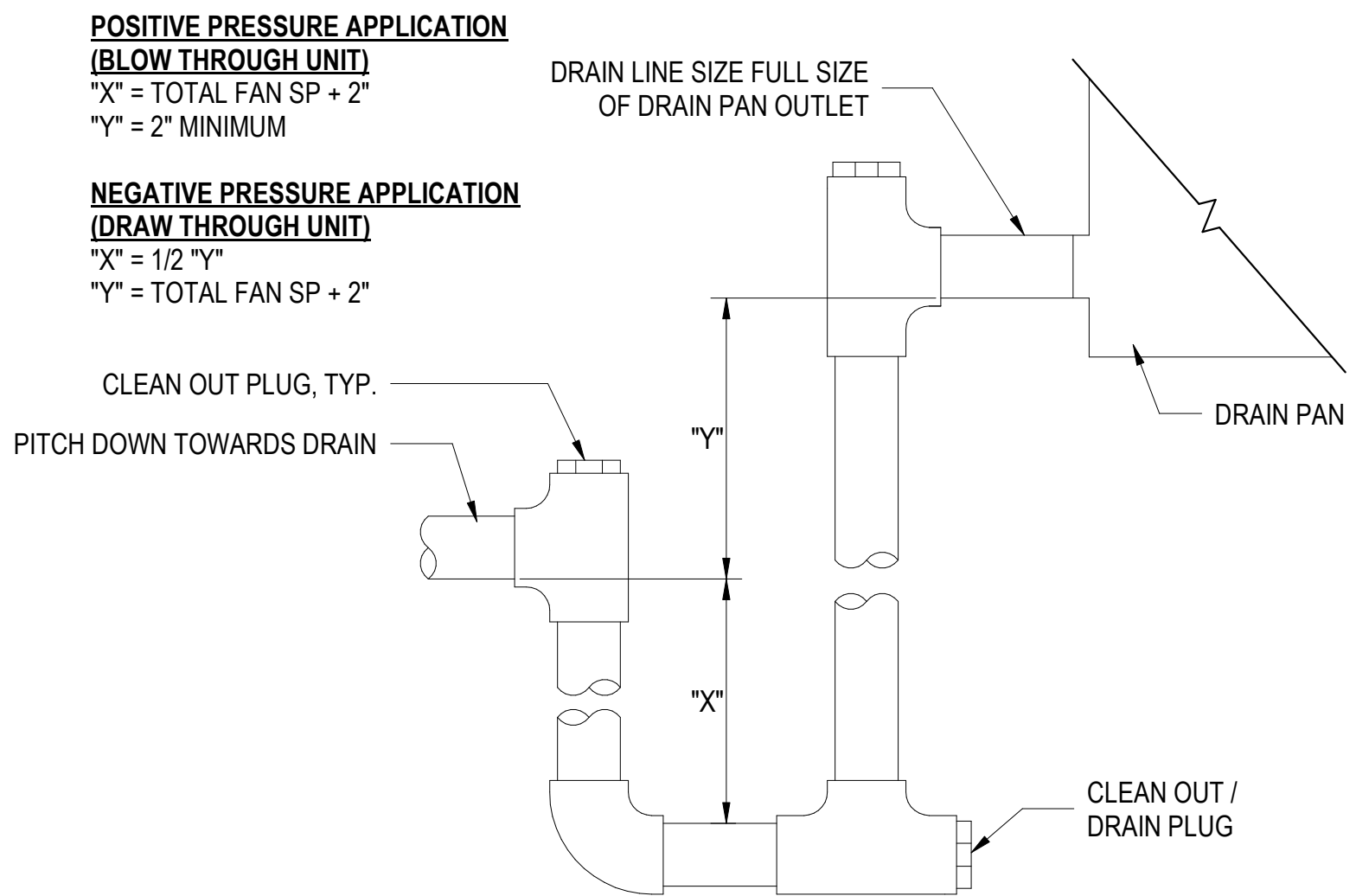


1 AIR SEPARATOR AND EXPANSION TANK
SCALE: NTS

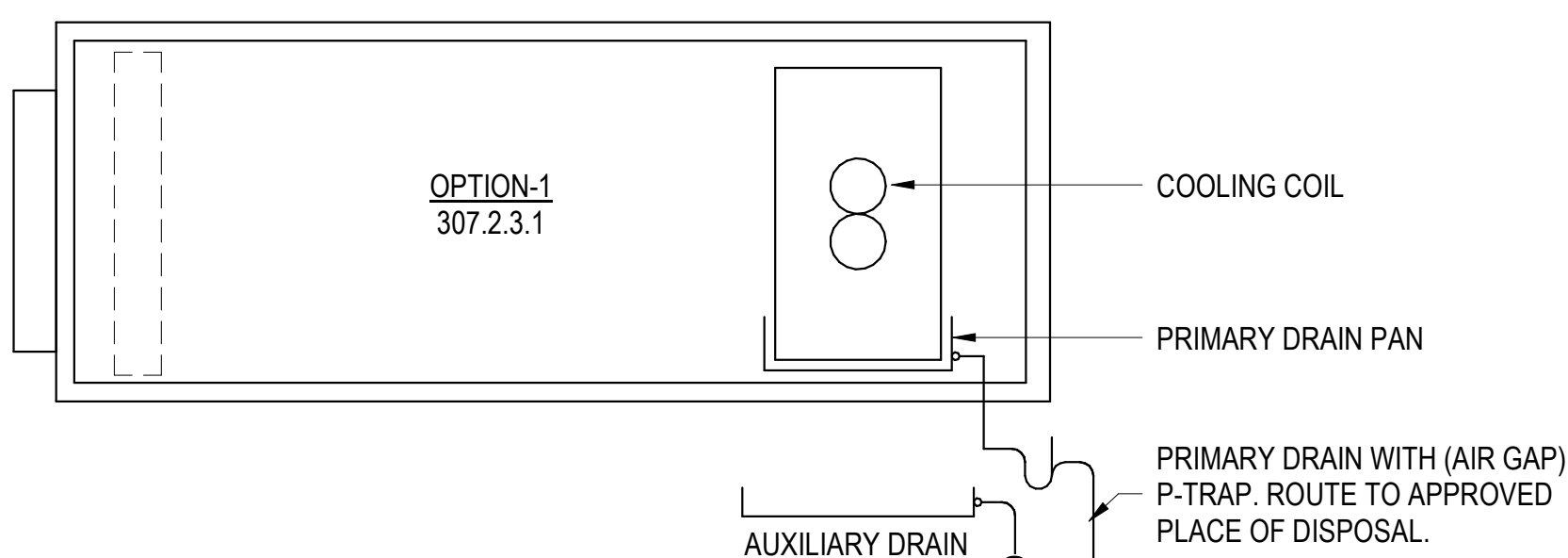


NOTES:
1. PROVIDE WITH 5 MICRON BAG FILTER.

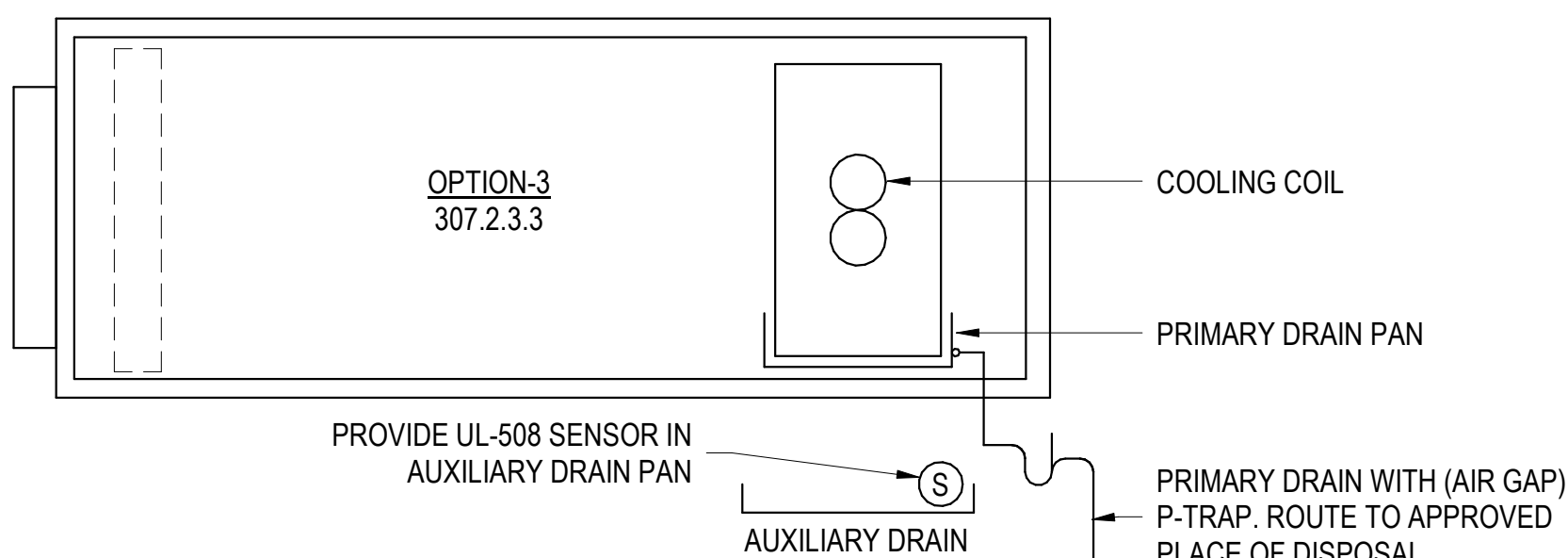
2 CHEMICAL SHOT FEEDER
SCALE: NTS



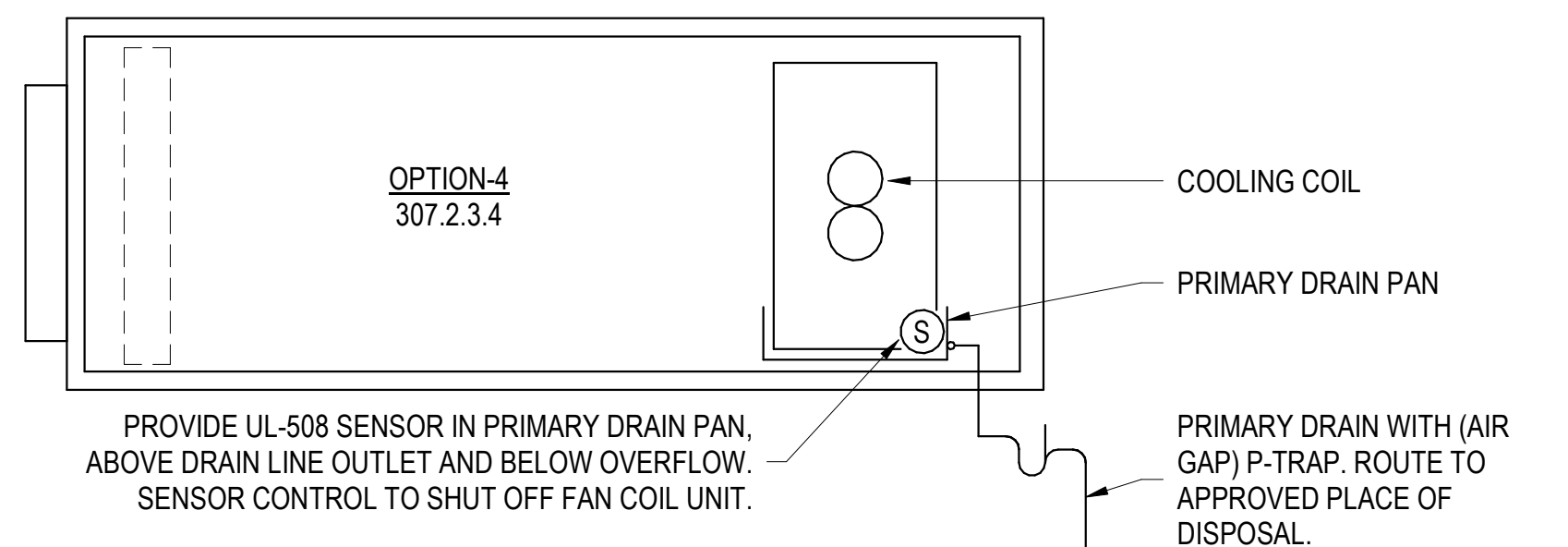
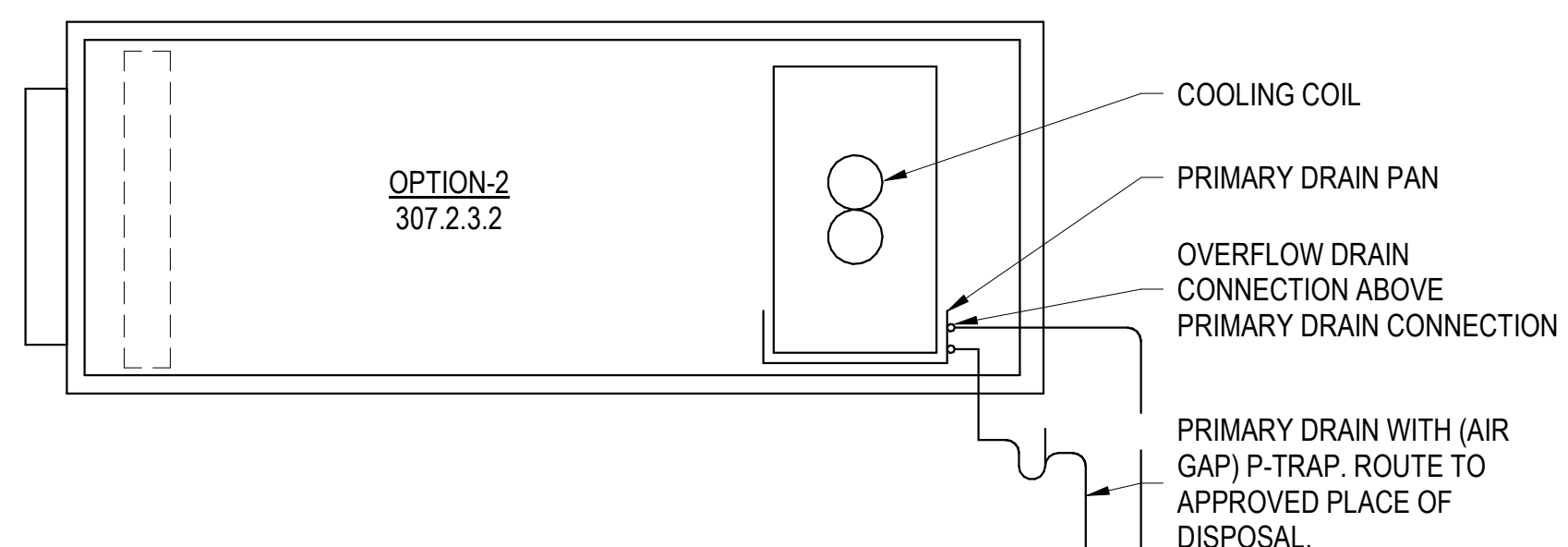
3 CONDENSATE TRAP/DRAIN
SCALE: NTS



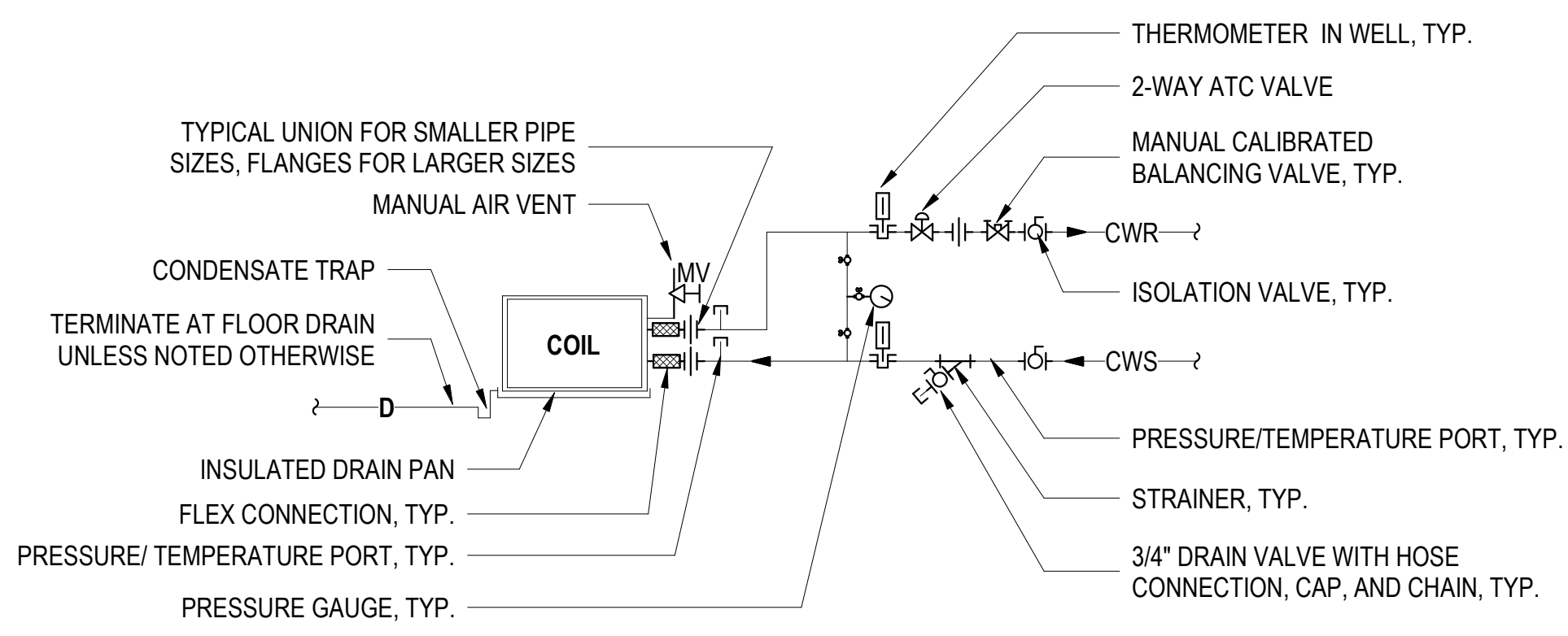
NOTE:
PROVIDE ONE OPTION FROM 1-4 FOR WSHP AUXILIARY/ SECONDARY DRAINAGE TO COMPLY WITH IMC 307.2.3



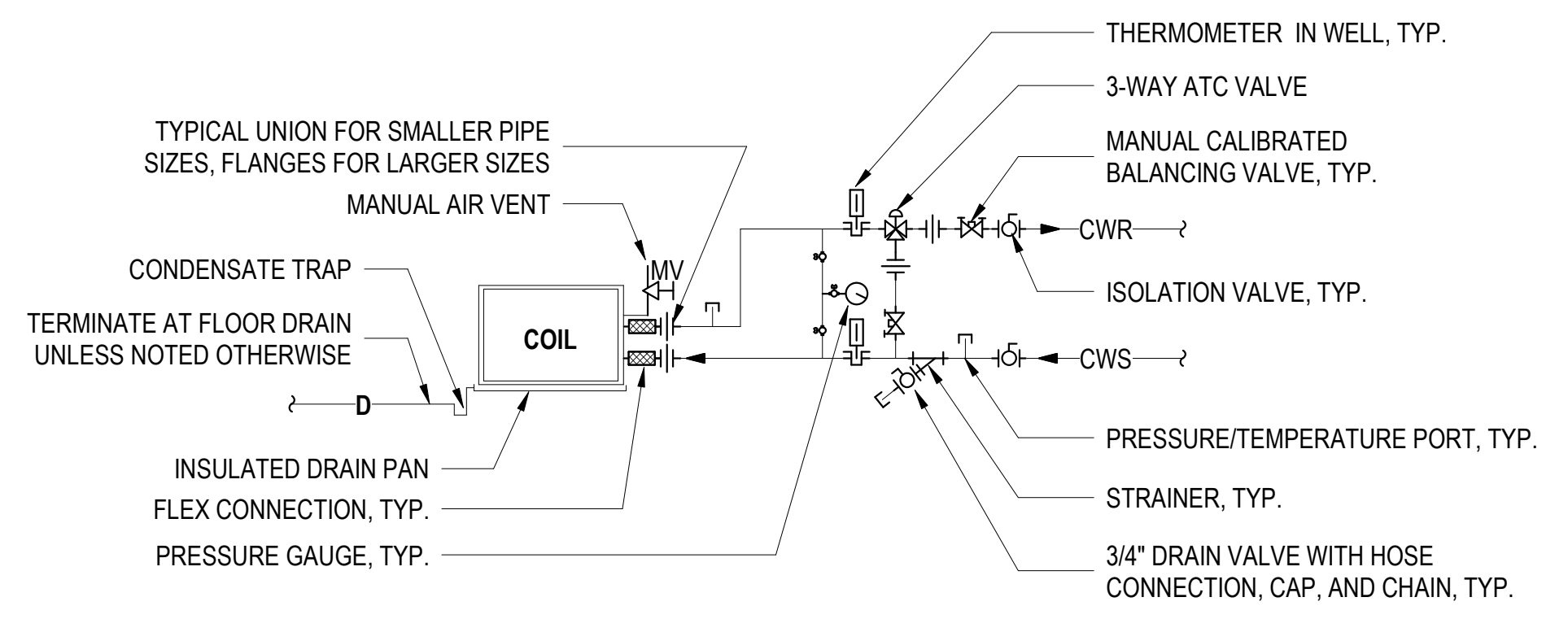
4 AUXILIARY-SECONDARY DRAIN SYSTEM (FBC, MECHANICAL 8TH ED.)
SCALE: NTS



5 COIL PIPING W/2-WAY VALVES
SCALE: NTS



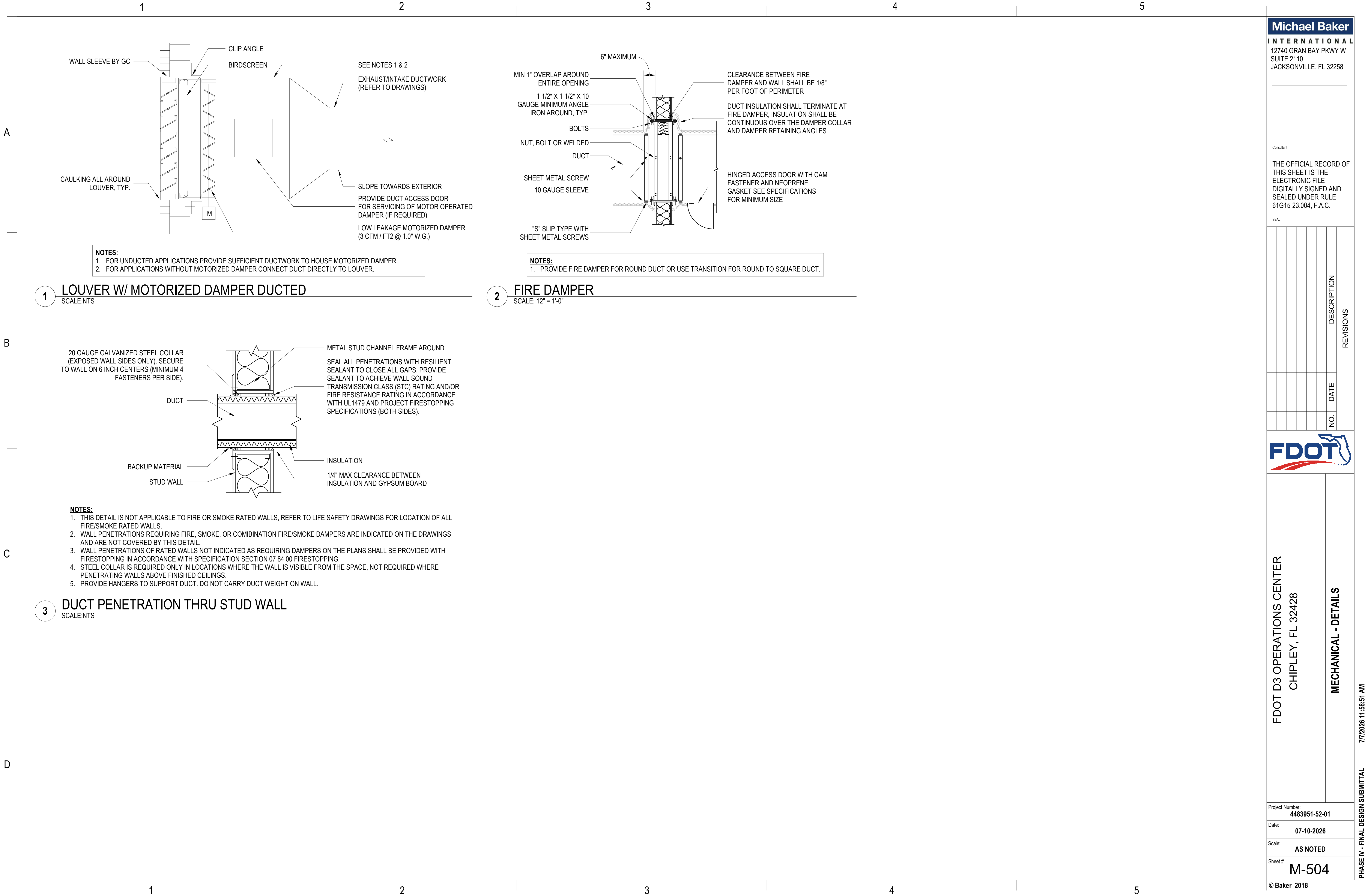
NOTES:
1. DRAIN PAN & TRAP REQUIRED ON HYDRONIC HEATING COILS UNLESS NOTED OTHERWISE.



NOTES:
1. INSTALL 3-WAY VALVES AT COILS/LOADS OUT IN SYSTEMS AS REQUIRED TO ALLOW SYSTEM MINIMUM FLOWS, AND TO ALLOW PIPING SYSTEM THROUGHOUT BUILDING TO STAY AT TEMPERATURE.
2. DRAIN PAN & TRAP REQUIRED ON HYDRONIC HEATING COILS UNLESS NOTED OTHERWISE.

6 COIL PIPING W/3-WAY VALVES
SCALE: 3/4" = 1'-0"

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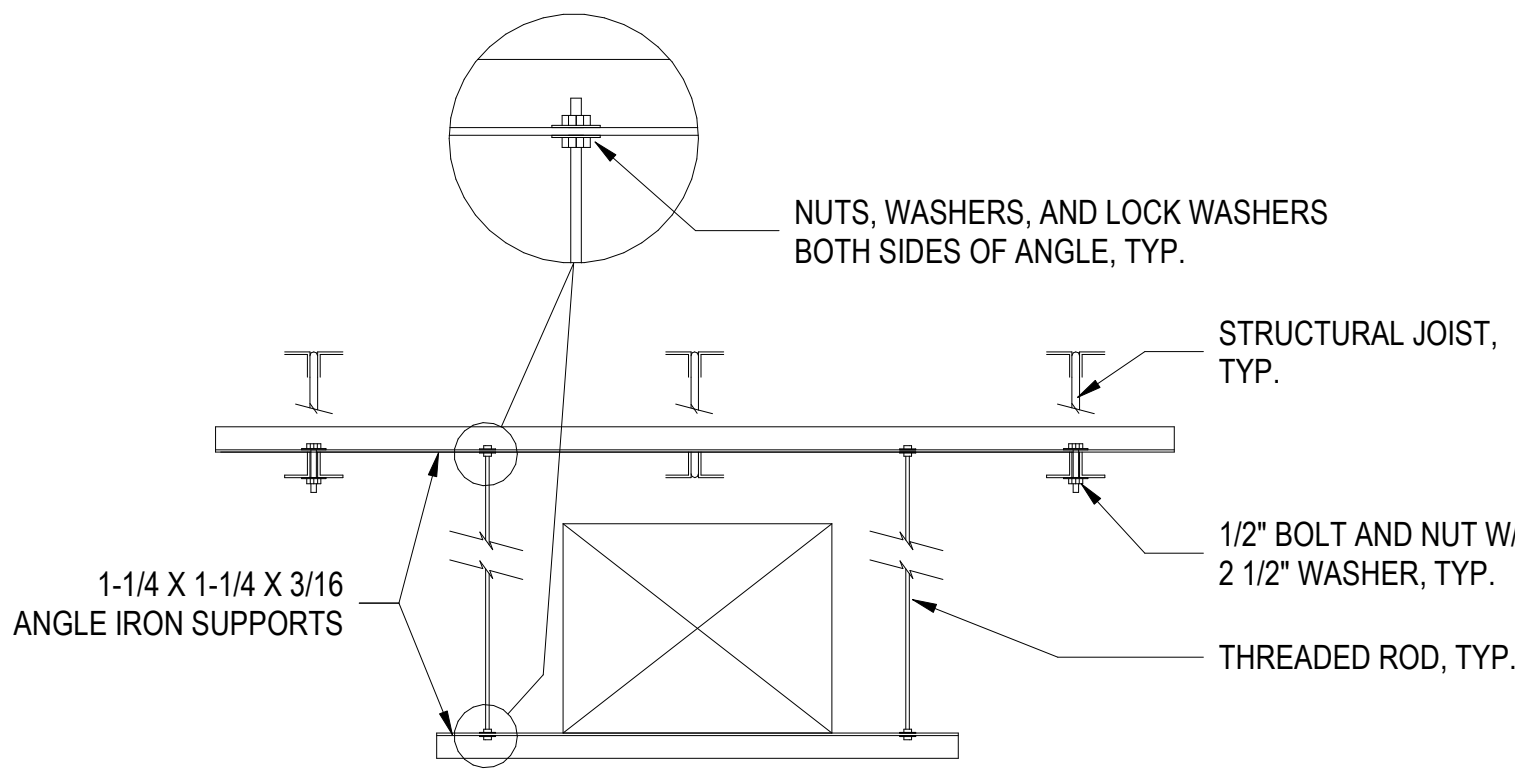
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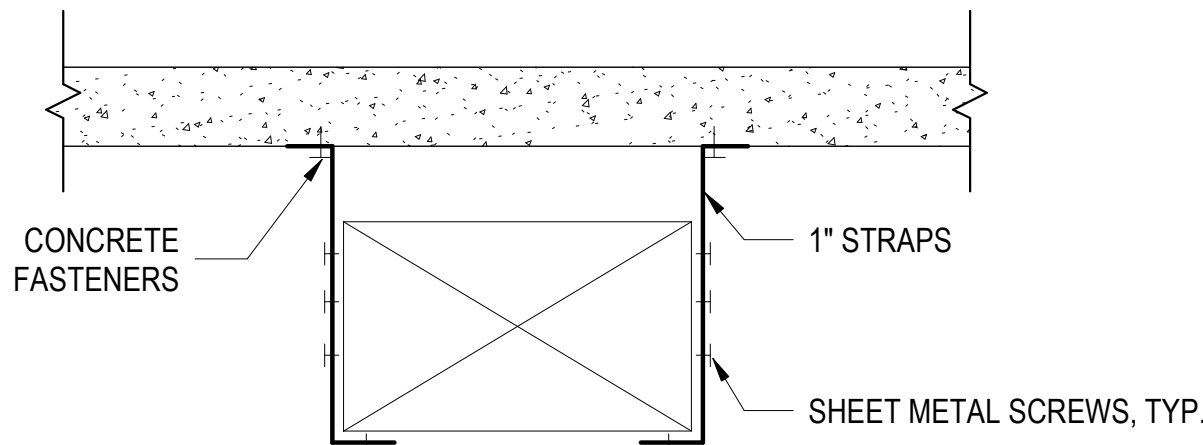
D



NOTES:
1. ALL DUCT SUPPORTS PER SMACNA.

1 JOIST DUCT HANGER

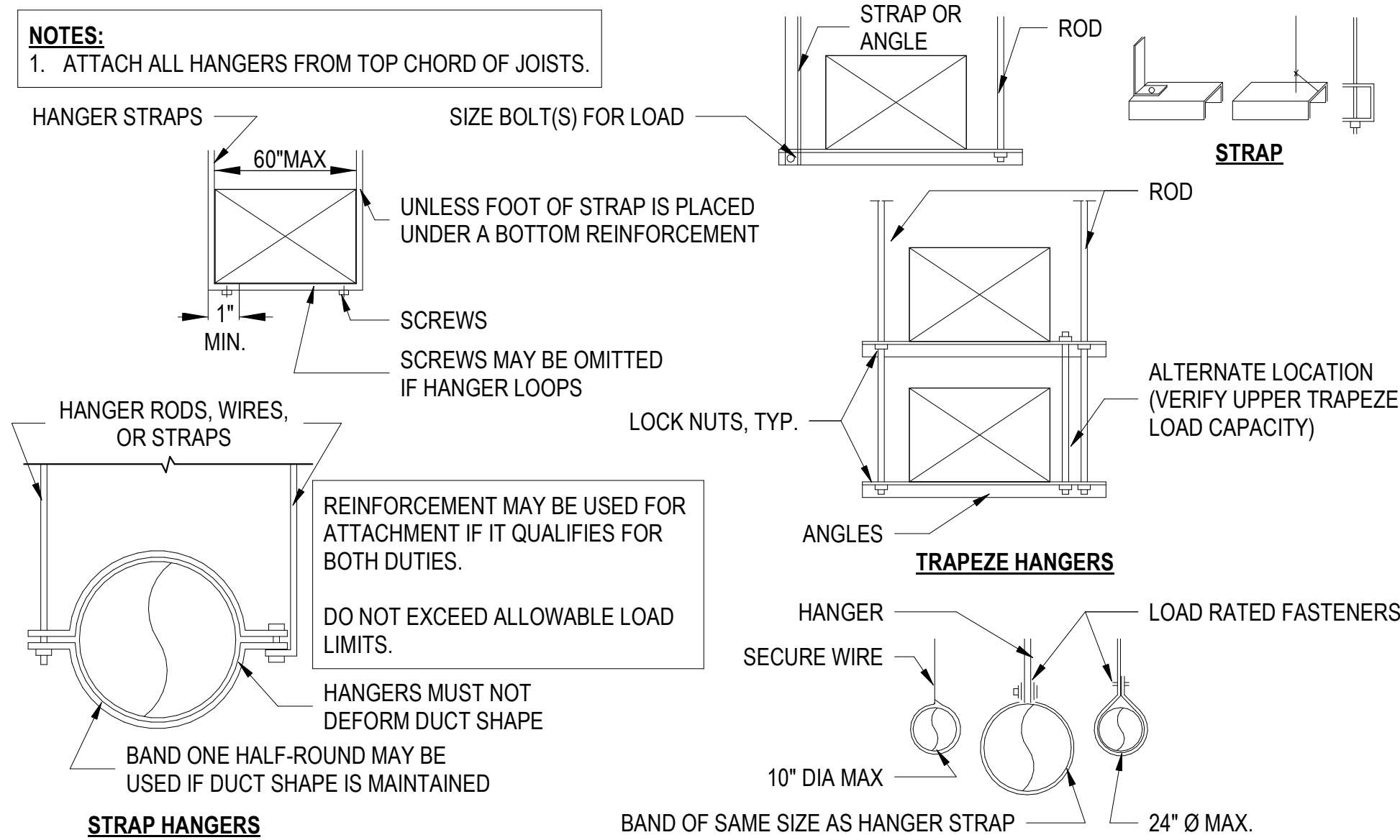
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NOTES:
1. FOR MEDIUM PRESSURE DUCTWORK SUPPORT STRAPS MAY BE BOLTED THROUGH AT REINFORCING ANGLE BOLT.

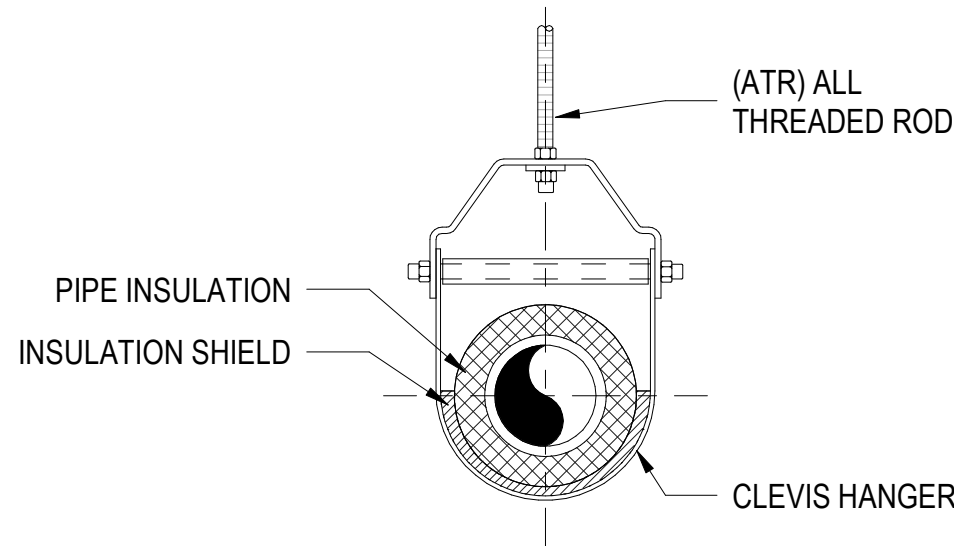
2 DUCT HANGER - STRAP

SCALE:NTS



3 DUCT AND PIPE HANGERS

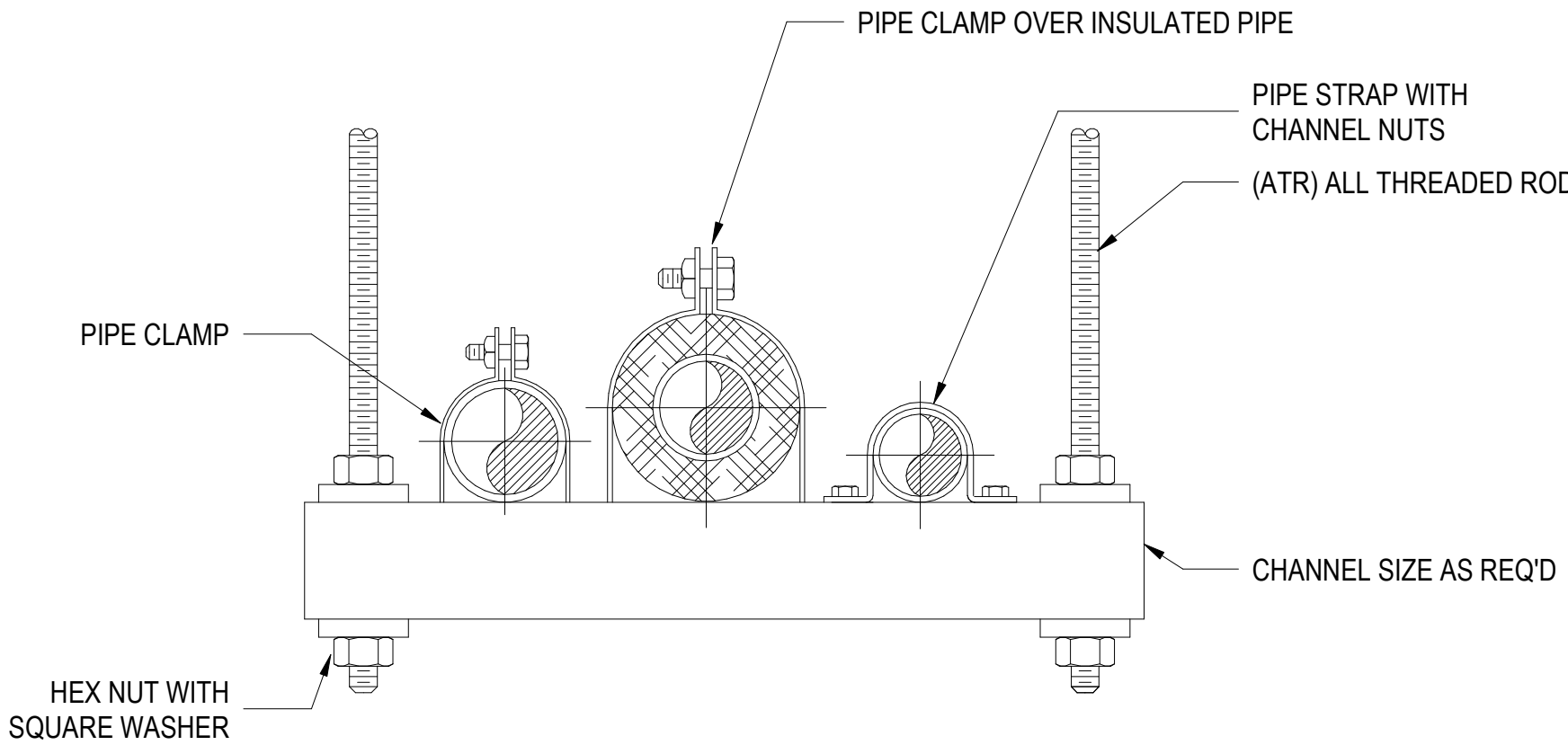
SCALE:NTS



NOTES:
1. REFER TO SPECIFICATIONS FOR HANGER ROD SIZES AND SPACING. THE SPACING SHOWN IN SPECIFICATION IS MAXIMUM SPACING PIPE WILL SPAN. THE HANGER SUPPORTS AND STRUCTURAL ELEMENTS OF THE BUILDING SHOULD BE CHECKED FOR LOAD SUPPORT. SPACING MAY HAVE TO BE REDUCED TO LIGHTEN LOAD ON CERTAIN HANGER SUPPORTS. DERATE EXP. SHIELDS BY 50%.

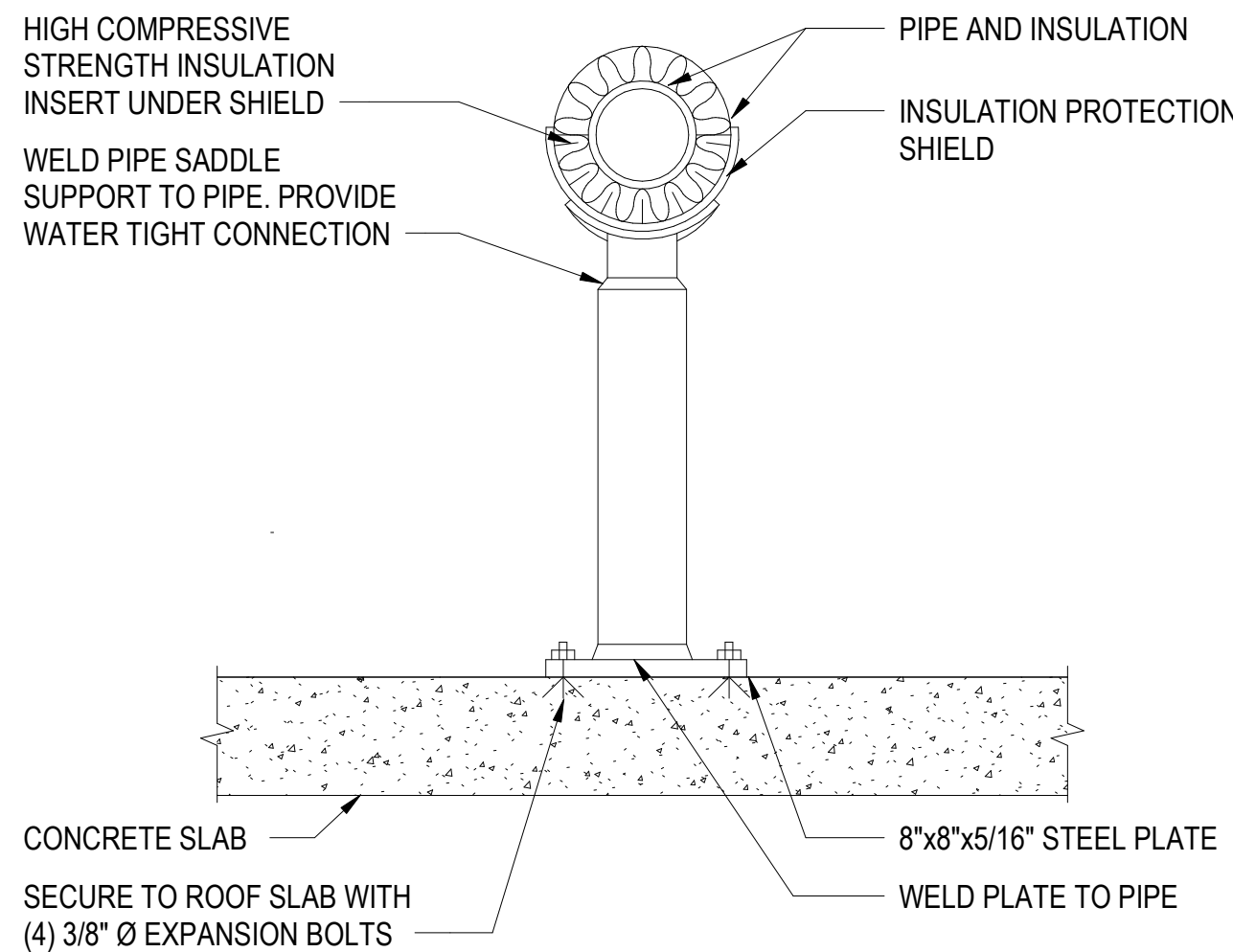
4 INDIVIDUAL PIPE SUPPORT

SCALE:NTS



5 TRAPEZE PIPE SUPPORT

SCALE:NTS



6 EXTERIOR PIPE SUPPORT

SCALE:NTS

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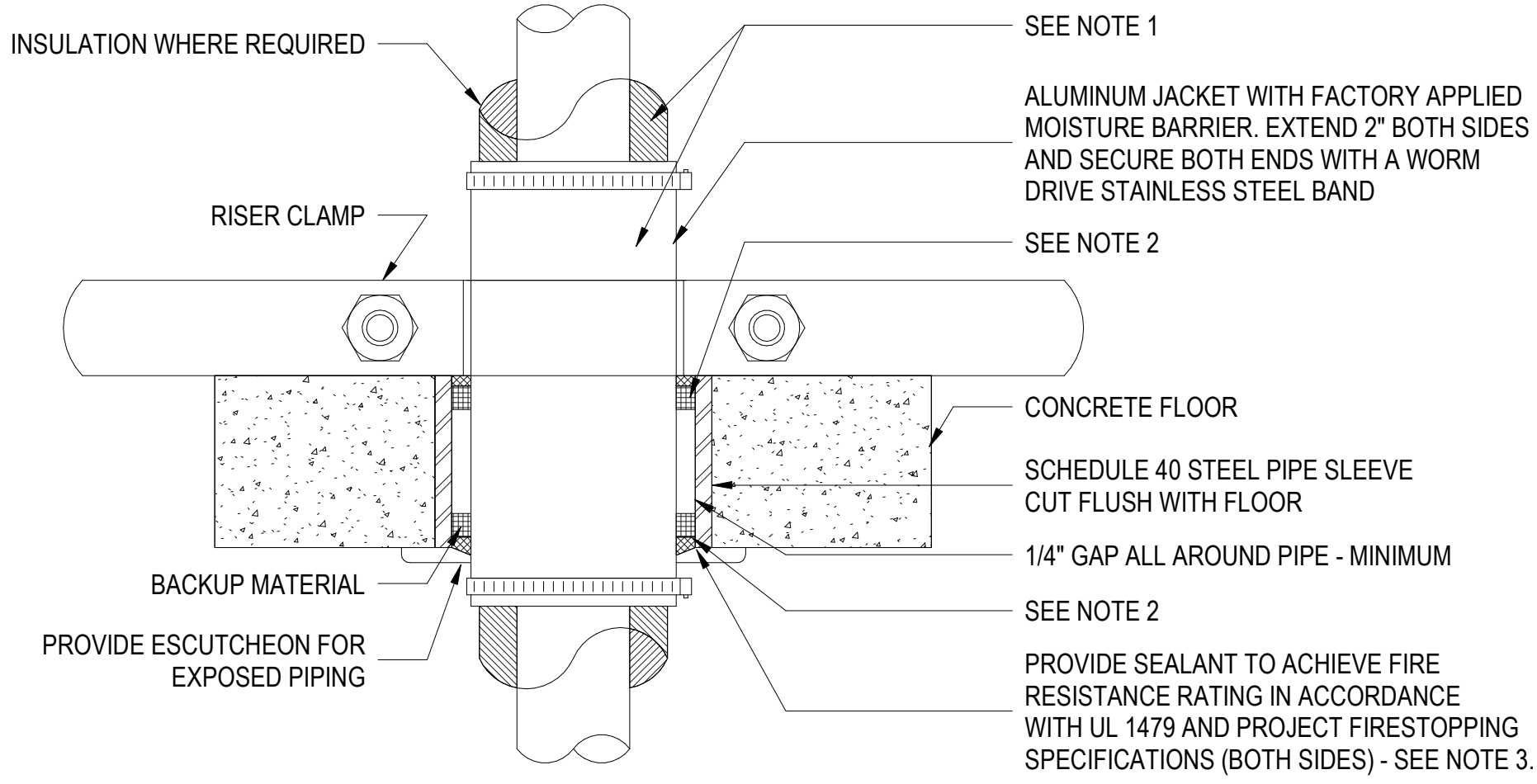
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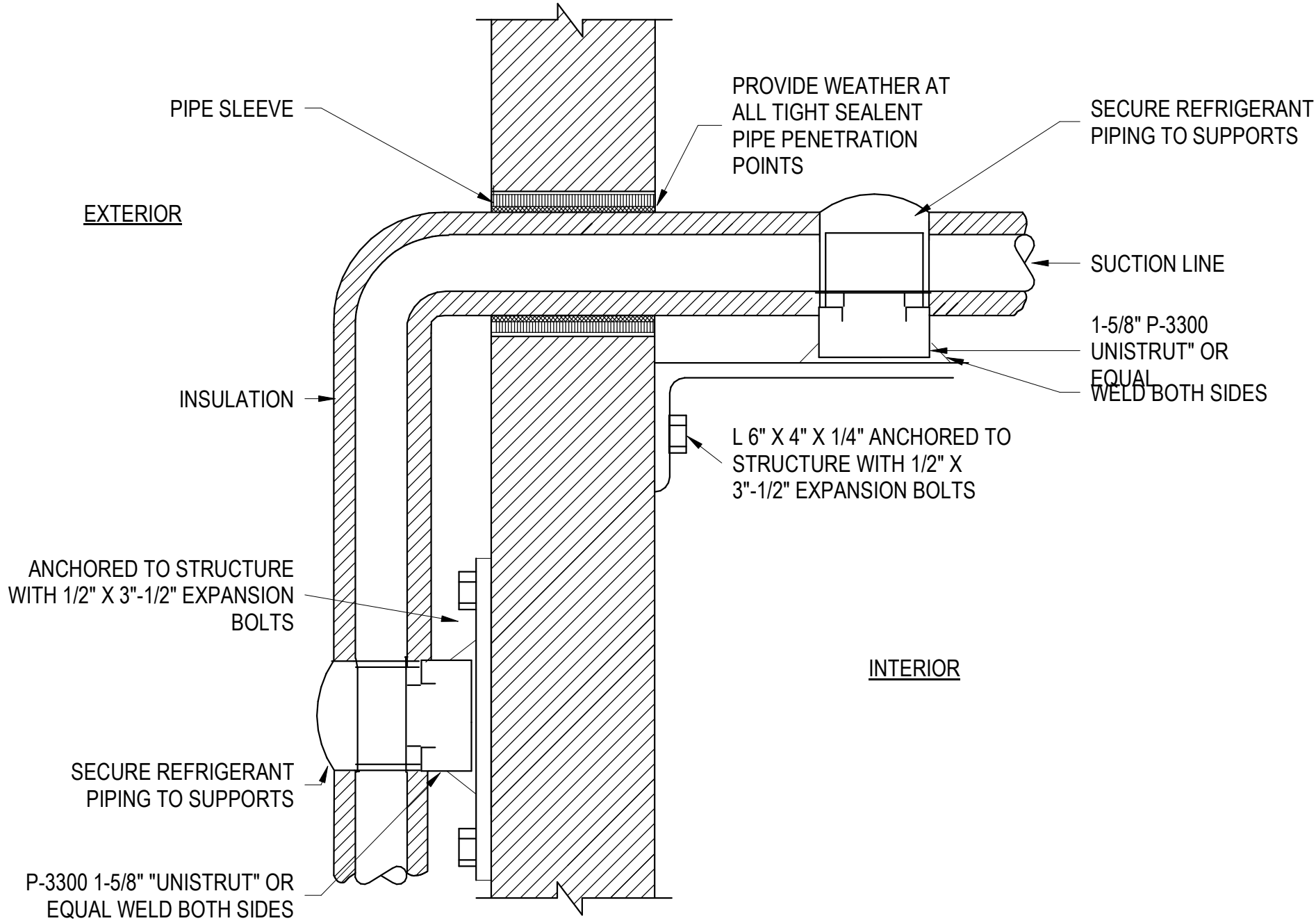
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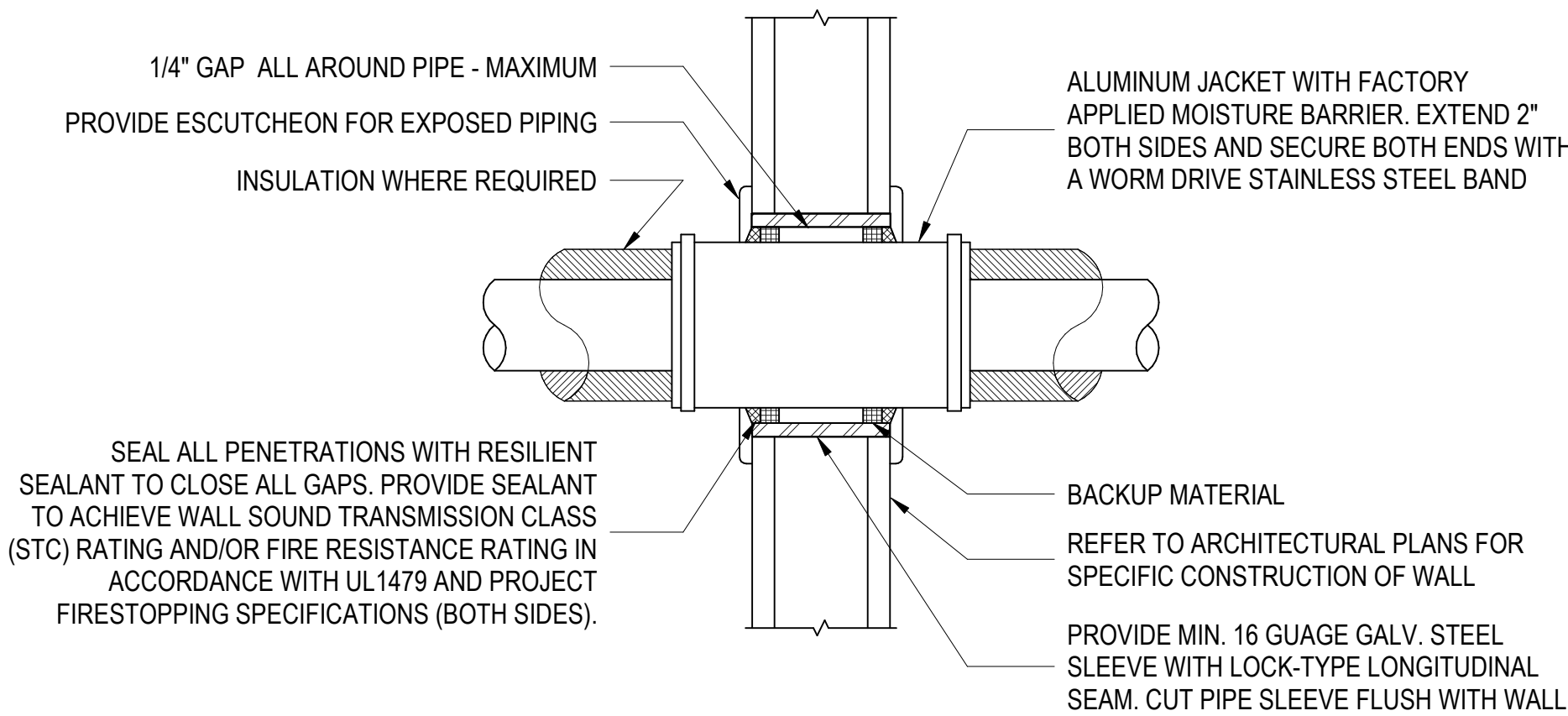


- NOTES:**
1. OMIT ALUMINUM JACKET IF PIPING IS UNINSULATED.
 2. PROVIDE SEALANT TO ACHIEVE FIRE RESISTANCE RATING IN ACCORDANCE WITH UL 1479 AND FIRESTOPPING SPECIFICATION SECTION.
 3. SEAL FLOOR IN ACCORDANCE WITH UL THROUGH-FLOOR PENETRATION DIRECTORY.

1 FLOOR PENETRATION
SCALE:NTS



2 REFRIGERANT PIPE SUPPORT AND PENETRATION AT WALL
SCALE:NTS



- NOTES:**
1. PROVIDE HANGERS TO SUPPORT PIPE. DO NOT CARRY PIPE WEIGHT ON WALL.

3 PIPE WALL PENETRATON
SCALE:NTS

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APPROVED EQUIVALENT TO BASIS OF DESIGN IS ACCEPTABLE. THE ELECTRICAL INFORMATION PRESENTED IN THESE SCHEDULES IS BASED ON MECHANICAL EQUIPMENT CATALOG DATA AND/OR SELECTIONS MADE DURING DESIGN. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ELECTRICAL REQUIREMENTS OF THE ACTUAL MECHANICAL EQUIPMENT PROVIDED. THE CONTRACTOR WILL IDENTIFY ANY AND ALL DIFFERENCES AND IS RESPONSIBLE FOR PROVIDING WIRING, DEVICES, AND EQUIPMENT NEEDED DUE TO THESE DIFFERENCES AT THEIR EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING MECHANICAL EQUIPMENT ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL TRADE.

LOUVER (L) SCHEDULE												
TAG	SERVING	SERVICE	DIMENSIONS		DESIGN CFM	REQ'D FREE AREA (SQFT)	MIN FREE AREA (%)	FREE AREA VELOCITY (FPM)	MAX. PRESSURE DROP (IN WG)	BASIS OF DESIGN		NOTES
			WIDTH (IN)	HEIGHT (IN)						MANUF	MODEL	
L-01	DOAS-01	INTAKE	60	48	5000	9.09	50	550	0.1	RUSKIN	HZ700MD	1 - 5
L-02	DOAS-01	EXHAUST	60	48	4500	8.18	50	550	0.1	RUSKIN	HZ700MD	1 - 5
NOTES: 1. PROVIDE COLOR TO MATCH EXTERIOR WALL FINISH. PROVIDE MANUFACTURER'S ORIGINAL COLOR CHART; SELECTION BY ARCHITECT. EXACT SIZES TO BE CONFIRMED BY CONTRACTOR. 2. PROVIDE COLOR TO MATCH EXTERIOR WALL FINISH. PROVIDE MANUFACTURER'S ORIGINAL COLOR CHART; SELECTION BY ARCHITECT. EXACT SIZES TO BE CONFIRMED BY CONTRACTOR. 3. LOUVER MUST BE ACMA LISTED TO MEET AMCA 540 (IMPACTED BY WIND BORNE DEBRIS), ACMA 550 (HIGH VELOCITY WIND DRIVEN RAIN RESISTANT), FLORIDA TAS PROTOCOLS (E.G., TAS 201 FOR IMPACT) AND MIAMI-DADE NOA (NOTICE OF ACCEPTANCE). 4. PROVIDE WITH LOW LEAKAGE MOTORIZED DAMPER(S) (3 CFM/SQFT AGAINST 1" DIFFERENTIAL PRESSURE). SEE DRAWINGS FOR LOCATION OF MOTORIZED DAMPERS. 5. PROVIDE CORROSION RESISTANT COATINGS AND MATERIALS; PROVIDE WITH ALUMINUM BIRDSCREEN.												
7/6/2026 9:48												

DIFFUSER, REGISTER AND GRILLE SCHEDULE													
TAG	SERVICE	MAX CFM	TYPE	DIMENSIONS (INCHES)				SLOT QTY	MAX PD (IN WG)	MAX NC	BASIS OF DESIGN		NOTES
				FACE	NECK	LINEAR SLOTS					MANUF	MODEL	
						LENGTH	WIDTH						
A	SUPPLY	40	LINEAR DIFFUSER	24 x 2	6 Ø	24	1/2	1	0.1	20	GREENHECK	LSD	1 - 6
B	OUTDOOR												
C	RETURN	40	LINEAR DIFFUSER	24 x 2	6 Ø	24	1/2	1	0.1	20	GREENHECK	LSD	1 - 5
D	EXHAUST / TRANSFER												
E	SUPPLY	210	LINEAR DIFFUSER	24 x 6	8 Ø	24	1	3	0.1	20	GREENHECK	LSD	1 - 6
F	OUTDOOR												
G	RETURN	210	LINEAR DIFFUSER	24 x 6	8 Ø	24	1	3	0.1	20	GREENHECK	LSD	1 - 5
H	EXHAUST / TRANSFER												
J	SUPPLY / OUTDOOR	360	CEILING DIFFUSER	24 x 24	10 Ø	-	-	-	0.1	20	GREENHECK	CPD	
K	RETURN / EXHAUST / TRANSFER	2000	CEILING GRILLE	24 x 24	22 x 22	-	-	-	0.1	20	GREENHECK	RGCC	
L	SUPPLY / OUTDOOR	140	REGISTER	8 x 8	6 x 6	-	-	-	0.1	20	GREENHECK	SG42	
M	RETURN / EXHAUST / TRANSFER	150	GRILLE	8 x 8	6 x 6	-	-	-	0.1	20	GREENHECK	RG	
N	SUPPLY / OUTDOOR	1100	REGISTER	24 x 24	22 x 22	-	-	-	0.05	30	GREENHECK	SGCB	
X	THIS TAG "X" USED TO DESIGNATE BALANCED CFM OF OPEN ENDED DUCT TERMINATIONS.												8
NOTES:													
1. REFER TO DRAWINGS FOR ACTUAL AIR BALANCE QUANTITIES IN SPECIFIC LOCATIONS.													
2. CONTRACTOR TO VERIFY CEILING/WALL TYPE AND PROVIDE PROPER FRAME AND BORDER TYPE FOR MOUNTING CONFIGURATION. FACE DIMENSIONS MAY VARY WITH MOUNTING CONFIGURATION.													
3. ALL DIFFUSERS, REGISTERS, GRILLES, AND ACCESSORIES ARE TO BE OF ALUMINUM CONSTRUCTION AND PROVIDED WITH MANUFACTURER'S STANDARD ENAMEL PAINT FINISH. REFER TO ARCHITECTURAL/INTERIOR DRAWINGS AND SPECIFICATION DIVISION 09 FINISHES FOR ADDITIONAL FINISH INFORMATION. FINAL COLOR/FINISH TO BE SELECTED BY ARCHITECT/INTERIOR DESIGNER FROM MANUFACTURER'S ORIGINAL COLOR SAMPLE.													
4. NC LEVELS ARE BASED ON DIFFUSER BLADES SET FOR HORIZONTAL AIRFLOW.													
5. PROVIDE DIFFUSER WITH MANUFACTURER'S INTEGRAL CABLE-OPERATED MANUAL VOLUME DAMPER ACCESSIBLE THROUGH DIFFUSER FACE.													
6. PROVIDE WITH MANUFACTURER'S INSULATED PLENUM BOX.													
7. PROVIDE WITH MANUFACTURER'S OPPOSED BLADE DAMPER.													
8. PROVIDE 1/2" HARDWARE CLOTH IN REMOVEABLE "U" FRAME OVER BELMOUTH AT OPEN END OF DUCT.													
7/6/2026 9:48													

SPLIT DX HEAT PUMP/AIR CONDITIONING UNIT (SSHP & HPCU) SCHEDULE																									
TAG	SPACE SERVED	ARI COOLING CAPACITY		HEATING CAPACITY		ARI MATCHED PAIR EFFICIENCY			INDOOR UNIT						OUTDOOR UNIT						BASIS OF DESIGN				NOTES
				@AHR147° OUTDOOR	@17° OUTDOOR				FAN AIRFLOW MIN-MAX (CFM)	TYPE	ELECTRICAL			SIZE LENGTH X HEIGHT X DEPTH (INCHES)	WEIGHT (LBS)	TAG	ELECTRICAL			SIZE LENGTH X WIDTH X HEIGHT (INCHES)	WEIGHT (LBS)	MANUF	UNIT SERIES		
		VOLTS/ PHASE/ HERTZ	MCA (AMPS)			MOCP (AMPS)	VOLTS/ PHASE/ HERTZ	MCA (AMPS)			MOCP (AMPS)	INDOOR	OUTDOOR												
																	TOTAL (MBH)	MIN. (MBH)	EER2				SEER2	HSPF2	
SSHP-101	149 EM ELEC	6000	5280	24000	16600	13	20	10	150-420	WALL MOUNT	POWERED BY OUTDOOR UNIT			40x 10 x 12	32	HPCU-01	208 / 1 / 60	21.7	38	34 X 13 X 28	119	MITSUBISHI	MSZ-FX06NL	MXZ-2D20NL	1 - 11
SSHP-102	125 ELEV MECH	6000	5280						150-420	WALL MOUNT				40x 10 x 12	32								MSZ-FX06NL		1 - 11
SSHP-201	260 TELECOM	33400	23046						765-910	WALL MOUNT	208 / 1 / 60	5	15	21 X 22 X 44	122							MITSUBISHI	SVZ-AP36NL	MXZ-SM60NLHZ	1 - 13
SSHP-301	343 TELECOM	12000	10560	64500	72500	10.7	18.2	10	165-525	MULTI-POSITION	208 / 1 / 60	1	15	40x 10 x 12	32										1 - 13
NOTES:																									
1. INDOOR UNIT POWERED BY THE OUTDOOR UNIT. POWER AND CONTROL WIRING BETWEEN INDOOR AND OUTDOOR UNITS TO BE PROVIDED																									
2. UNIT SIZE AND WEIGTHS ARE APPROXIMATE BASED ON BASIS OF DESIGN EQUIPMENT.																									
3. COOLING RATED CAPACITIES ARE BASED ON 80°F DB/67°F WB INDOOR TEMPERATURES AND 95°F DB/75°F WB OUTDOOR TEMPERATURES.																									
4. HEATING RATED CAPACITIES ARE BASED ON 70°F DB/60°F WB INDOOR TEMPERATURES, 47oF DB/43oF WB OUTDOOR TEMPERATURES.																									
5. PROVIDE WITH MANUFACTURER'S STANDARD WASHABLE AIR FILTER/FILTRATION SYSTEM.																									
6. PROVIDE COMPONENTS WITH INTERCONNECTING REFRIGERANT PIPING FOR FIELD INSTALLATION. FULLY CHARGE WITH REFRIGRANT. INSULATE PER SPECIFICATIONS.																									
7. PROVIDE INDOOR UNIT WITH CONDENSATE PUMP (POWERED BY INDOOR UNIT); EXTEND DRAIN LINE TO NEAREST FLOOR DRAIN OR SAFEWASTE DISPOSAL LOCATION.																									
8. PROVIDE 4" CONCRETE PAD (AT GRADE) OR EQUIPMENT RAILS (ON ROOF) FOR OUTDOOR CONDENSING UNIT. EXTERIOR REFRIGERANT PIPE INSULATION SHALL BE WRAPPED WITH ALUMINUM JACKET.																									
9. PROVIDE CONDENSER COIL WITH MANUFACTURERS SEACOAST AND ANTI-CORROSION PROTECTION (SHALL PASS 3,000 HOUR SALT SPRAY TEST PER ASTM B117).																									
10. PROVIDE UNIT/SYSTEM WITH REFRIGERANT LEAK SENSORS AND SAFETY SHUTOFF VALVES.																									
11. PROVIDE WITH MANUFACTURER'S CONTROLLER PANEL MOUNTED WITHIN SPACE SERVED. CONTROLLER MUST BE CAPABLE OF CONTROLLING UNITS IN RESPONSE TO REFRIGERANT LEAK SENSORS.																									
12. UNIT SERVED VIA BRANCH BOX BC-01. PROVIDE SEPARATE POWER CONNECTION TO BRANCH BOX AT 208 / 1 / 60																									
13. MISSION CRITICAL UNIT TO BE PRIORITIZED DURING EMERGENCY OPERATION MODE.																									
7/6/2026 9:48																									

Michael Baker

INTERNATIONAL
12740 GRAN BAY PKWY W
SUITE 2110
JACKSONVILLE, FL 32258

Consultant

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NO.

DATE



FDOT D3 OPERATIONS CENTER
CHIPLEY, FL 32428

Project Number:
4483951-52-01

Date:
07-10-2026

Scale:
AS NOTED

Sheet #
M-602

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MECHANICAL - SCHEDULES

PHASE IV - FINAL DESIGN SUBMITTAL
7/7/2026 11:58:52 AM

A

B

C

D

APPROVED EQUIVALENT TO BASIS OF DESIGN IS ACCEPTABLE. THE ELECTRICAL INFORMATION PRESENTED IN THESE SCHEDULES IS BASED ON MECHANICAL EQUIPMENT CATALOG DATA AND/OR SELECTIONS MADE DURING DESIGN. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ELECTRICAL REQUIREMENTS OF THE ACTUAL MECHANICAL EQUIPMENT PROVIDED. THE CONTRACTOR WILL IDENTIFY ANY AND ALL DIFFERENCES AND IS RESPONSIBLE FOR PROVIDING WIRING, DEVICES, AND EQUIPMENT NEEDED DUE TO THESE DIFFERENCES AT THEIR EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING MECHANICAL EQUIPMENT ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL TRADE.

WATER SOURCE HEAT PUMP (WSHP) UNIT SCHEDULE																						
TAG	SPACE SERVED	UNIT SIZE	SUPPLY AIR FLOW (CFM)	CONDENSER WATER (GPM)	COOLING CAPACITY BASED ON EWT=90°F; EAT=80/67°F					HEAT PUMP CAPACITY BASED ON EWT=60°F; EAT=68°F				ELECTRICAL					BASIS OF DESIGN		NOTES	
					TOTAL (MBH)	SENSIBLE (MBH)	HEAT OF REJECTION (MBH)	LWT (°F)	EER	TOTAL (MBH)	HEAT OF EXTRACTION (MBH)	LWT (°F)	COP	VOLTS/ PHASE/ HERTZ	TOTAL UNIT FLA (AMPS)	MIN CIRCUIT AMPS	MOC	COMPRESSOR QTY / RLA / LRA	MANUF	MODEL		
WSHP-101	130 - OFFICE; 132 - OFFICE; 134 - OFFICE; 135 - DEPT HEAD	024	1000	6.0	24.9	18.8	31.1	100.4	13.4	29.4	23.4	52.2	4.6	208 / 1 / 60	15.3	18.2	25	1 / 11.4 / 64.4	CLIMATE MASTER	SC	1 - 5	
WSHP-102	136 - DEPUTY; 138 - OFFICE; 140 - OFFICE	012	415	3.0	11.0	7.3	14.1	99.4	12.0	14.7	11.4	52.4	4.3	208 / 1 / 60	7.5	8.7	15	1 / 5.1 / 32.5	CLIMATE MASTER	SC	1 - 5	
WSHP-103	143 - STORAGE/LARGE PRINTER AREA	006	220	1.0	5.4	4.2	7.0	104.0	11.2	7.2	5.5	48.9	4.3	208 / 1 / 60	5.7	6.6	15	1 / 3.3 / 17.7	CLIMATE MASTER	SC	1 - 5	
WSHP-104	124 - STOR; 131; 133; 137; 139; 141; 144; 145 - OFFICE(S)	015	545	2.8	14.4	10.5	18.1	102.9	13.3	16.2	12.7	50.9	4.5	208 / 1 / 60	7.9	9.2	15	1 / 5.2 / 26.0	CLIMATE MASTER	SC	1 - 5	
WSHP-105	128; 129 - OFFICE(S)	012	400	1.5	10.3	7.0	13.7	108.3	10.4	13.4	10.2	46.4	4.0	208 / 1 / 60	7.5	8.7	15	1 / 5.1 / 32.5	CLIMATE MASTER	SC	1 - 5	
WSHP-106	105 - CONF RM	012	400	3.0	11.0	7.3	14.1	99.4	12.0	14.5	11.2	52.5	4.3	208 / 1 / 60	7.5	8.7	15	1 / 5.1 / 32.5	CLIMATE MASTER	SC	1 - 5	
WSHP-107A	103 - MF CONF HALL; 104 - CHAIR STORAGE	030	1100	7.5	28.6	22.4	36.1	99.6	13.2	33.0	26.0	53.1	4.4	208 / 1 / 60	16.6	19.8	30	1 / 12.7 / 75.6	CLIMATE MASTER	SC	1 - 5	
WSHP-107B	103 - MF CONF HALL	030	1000	5.6	27.7	21.2	35.3	102.6	12.4	32.0	24.9	51.1	4.3	208 / 1 / 60	16.6	19.8	30	1 / 12.7 / 75.6	CLIMATE MASTER	SC	1 - 5	
WSHP-108	101 - VEST; 102 - CIRC; 110 - LACT	006	265	2.0	5.9	4.7	7.4	97.4	13.0	7.9	6.3	53.7	4.6	208 / 1 / 60	5.7	6.6	15	1 / 3.3 / 17.7	CLIMATE MASTER	SC	1 - 5	
WSHP-109A	114 - EOC OPEN OFFICE AREA	018	725	4.5	19.2	14.7	23.9	100.6	13.4	21.0	16.6	52.6	4.5	208 / 1 / 60	11.9	14.2	20	1 / 9.2 / 35.0	CLIMATE MASTER	SC	1 - 6	
WSHP-109B	114 - EOC OPEN OFFICE AREA	018	725	4.5	19.2	14.7	23.9	100.6	13.4	21.0	16.6	52.6	4.5	208 / 1 / 60	11.9	14.2	20	1 / 9.2 / 35.0	CLIMATE MASTER	SC	1 - 6	
WSHP-110	111 - CIRC; 115 - EOC CONF	009	375	2.5	8.5	6.8	10.8	98.6	12.4	11.4	9.0	52.8	4.4	208 / 1 / 60	6.9	8	15	1 / 4.5 / 22.2	CLIMATE MASTER	SC	1 - 6	
WSHP-111	116 - EOC KITCHEN; 117 - EOC STOR. OVERNIGHT	015	530	2.8	14.4	10.5	18.1	102.9	13.3	16.1	12.6	51.0	4.5	208 / 1 / 60	7.9	9.2	15	1 / 5.2 / 26.0	CLIMATE MASTER	SC	1 - 6	
WSHP-112	118; 119 - OFFICE(S)	012	400	1.5	10.3	7.0	13.7	108.3	10.4	13.4	10.2	46.4	4.0	208 / 1 / 60	7.5	8.7	15	1 / 5.1 / 32.5	CLIMATE MASTER	SC	1 - 5	
WSHP-113	120 - BREAK ROOM	012	360	1.5	10.1	6.7	13.5	108.0	10.4	13.2	10.0	46.6	4.0	208 / 1 / 60	7.5	8.7	15	1 / 5.1 / 32.5	CLIMATE MASTER	SC	1 - 5	
WSHP-114	147 - MECH / FIRE RISER	009	375	1.1	7.8	6.3	10.3	108.7	10.9	10.4	8.2	45.1	4.4	208 / 1 / 60	6.3	7.3	15	1 / 4.0 / 22.0	CLIMATE MASTER	SD	1 - 5	
WSHP-115	148 - ELEC	030	1100	7.5	28.6	22.4	36.1	99.6	13.2	33.0	26.0	53.1	4.4	208 / 1 / 60	16.6	19.8	30	1 / 12.7 / 75.6	CLIMATE MASTER	SC	1 - 6	
WSHP-116	401 - EAST STAIR	018	600	5.0	15.8	13.3	20.8	98.3	12.1	20.5	15.6	53.8	4.2	208 / 1 / 60	11.5	13.8	20	1 / 9.2 / 35.0	CLIMATE MASTER	SD	1 - 5	
WSHP-117	400 - WEST STAIR	018	750	4.5	15.8	13.9	23.5	99.4	12.1	21.0	16.6	53.3	4.2	208 / 1 / 60	11.5	13.8	20	1 / 9.2 / 35.0	CLIMATE MASTER	SD	1 - 5	
WSHP-118	126 - ELEC	009	375	2.5	8.5	6.8	10.8	98.6	12.4	11.4	9.0	52.8	4.4	208 / 1 / 60	6.9	8	15	1 / 4.5 / 22.2	CLIMATE MASTER	SC	1 - 6	
WSHP-201	252 - DEPUTY; 253; 255; 256 - OFFICE(S)	030	1000	3.8	26.6	20.7	34.8	108.3	11.1	30.8	23.8	47.5	4.2	208 / 1 / 60	16.6	19.8	30	1 / 12.7 / 75.6	CLIMATE MASTER	SC	1 - 5	
WSHP-202	246 - DEPUTY; 248 - OFFICE; 250 - DEPUTY	015	570	1.9	13.9	10.5	17.8	108.8	12.0	15.5	12.2	47.1	4.3	208 / 1 / 60	7.9	9.2	15	1 / 5.2 / 26.0	CLIMATE MASTER	SC	1 - 5	
WSHP-203	240 - DEPUTY; 242 - OFFICE; 244 - DEPUTY	015	555	1.9	13.9	10.5	17.8	108.8	12.0	15.5	12.1	47.2	4.3	208 / 1 / 60	7.9	9.2	15	1 / 5.2 / 26.0	CLIMATE MASTER	SC	1 - 5	
WSHP-204	234; 236; 238 - OFFICE(S); 239 - DEPT HEAD	018	750	3.4	18.7	14.5	23.7	103.9	12.7	20.5	16.2	50.5	4.4	208 / 1 / 60	11.9	14.2	20	1 / 9.2 / 35.0	CLIMATE MASTER	SC	1 - 5	
WSHP-205A	265 - CIRC	018	700	5.4	19.1	14.6	23.8	100.6	13.4	20.9	16.6	52.6	4.5	208 / 1 / 60	11.9	14.2	20	1 / 9.2 / 35.0	CLIMATE MASTER	SC	1 - 5	
WSHP-205B	260 - TELE	036	1150	3.0	30.6	24.5	41.0	117.3	9.9	36.7	27.9	41.4	4.0	208 / 1 / 60	20.4	24.0	35	1 / 14.1 / 86.0	CLIMATE MASTER	SC	1 - 6	
WSHP-206	245; 247; 249; 251; 254 - OFFICE(S); 257 STOR	006	400	1.0	8.6	7.0	10.9	111.7	11.2	7.4	5.8	48.4	4.3	208 / 1 / 60	5.7	6.6	15	1 / 3.3 / 17.7	CLIMATE MASTER	SC	1 - 5	
WSHP-207	243 - PRINT/SUPPLY; 259 - STORAGE; 261 - BREAK RM	009	310	1.3	7.6	5.8	10.1	105.5	10.7	10.3	7.9	47.9	4.1	208 / 1 / 60	6.9	8	15	1 / 4.5 / 22.2	CLIMATE MASTER	SC	1 - 5	
WSHP-208	233; 235; 237 - OFFICE(S)	006	225	1.0	5.4	4.2	7.0	104.0	11.2	7.2	5.5	48.9	4.3	208 / 1 / 60	5.7	6.6	15	1 / 3.3 / 17.7	CLIMATE MASTER	SC	1 - 5	
WSHP-209	202; 204 - OFFICE(S); 206 -DEPUTY; 208 - DEPT HEAD	030	970	3.8	26.4	20.2	34.6	108.2	11.1	30.6	23.6	47.6	4.2	208 / 1 / 60	16.6	19.8	30	1 / 12.7 / 75.6	CLIMATE MASTER	SC	1 - 5	
WSHP-210	201; 203; 205 - OFFICE(S)	006	225	1.0	5.4	4.2	7.0	104.0	11.2	7.2	5.5	48.9	4.3	208 / 1 / 60	5.7	6.6	15	1 / 3.3 / 17.7	CLIMATE MASTER	SC	1 - 5	
WSHP-211	258 - CONF	009	325	2.5	8.3	6.3	10.6	98.4	12.4	11.1	8.7	53.0	4.4	208 / 1 / 60	6.9	8	15	1 / 4.5 / 22.2	CLIMATE MASTER	SC	1 - 5	
WSHP-212	207; 210; 212; 214 - OFFICE(S)	006	300	2.0	5.9	4.9	7.6	97.6	13.0	8.0	6.4	53.6	4.6	208 / 1 / 60	5.7	6.6	15	1 / 3.3 / 17.7	CLIMATE MASTER	SC	1 - 5	
WSHP-213	216; 218 - OFFICE(S); 219 - EFB STORAGE; 223; 230 - OFFICE(S)	006	325	1.0	5.7	4.9	7.3	104.6	11.2	7.4	5.8	48.4	4.3	208 / 1 / 60	5.7	6.6	15	1 / 3.3 / 17.7	CLIMATE MASTER	SC	1 - 5	
WSHP-214	228 - DEPUTY; 229 ; 231; 232 - OFFICE(S)	018	750	4.5	19.2	14.7	23.9	100.6	13.4	21.0	16.6	52.6	4.5	208 / 1 / 60	11.9	14.2	20	1 / 9.2 / 35.0	CLIMATE MASTER	SC	1 - 5	
WSHP-215	209; 211; 213; 215 - OFFICE(S)	015	600	3.8	15.0	11.3	18.6	99.8	14.1	16.7	13.3	53.0	4.6	208 / 1 / 60	7.9	9.2	15	1 / 5.2 / 26.0	CLIMATE MASTER	SC	1 - 5	
WSHP-216	217; 224; 225; 227 - OFFICE(S)	018	670	2.3	17.7	13.7	23.2	110.1	11.3	19.4	15.1	46.9	4.3	208 / 1 / 60	11.9	14.2	20	1 / 9.2 / 35.0	CLIMATE MASTER	SC	1 - 5	
WSHP-217	241 - MECH	009	300	1.0	8.6	6.9	10.9	109.8	12.7	10.3	8.1	45.3	4.4	208 / 1 / 60	6.3	7.3	15	1 / 4.0 / 22.0	CLIMATE MASTER	SD	1 - 5	
WSHP-218	263 - ELEC	006	275	1.0	5.6	4.6	7.2	104.4	11.2	7.3	5.7	48.6	4.3	208 / 1 / 60	5.7	6.6	15	1 / 3.3 / 17.7	CLIMATE MASTER	SC	1 - 6	
WSHP-301	336 - DEPT HEAD; 337; 339 - OFFICE(S)	018	725	2.3	17.9	14.2	23.4	110.3	11.3	19.5	15.3	46.7	4.3	208 / 1 / 60	11.9	14.2	20	1 / 9.2 / 35.0	CLIMATE MASTER	SC	1 - 5	
WSHP-302	328 - DEPUTY; 327; 331; 333; 335 - OFFICE(S)	018	630	2.3	17.6	13.4	23.0	110.0	11.3	19.3	15.0	47.0	4.3	208 / 1 / 60	11.9	14.2	20	1 / 9.2 / 35.0	CLIMATE MASTER	SC	1 - 5	
WSHP-303	322 - OFFICE; 324 - DEPUTY; 326 - DEPT HEAD	015	545	1.9	13.8	10.3	17.7	108.6	12.0	15.4	12.0	47.3	4.3	208 / 1 / 60	7.9	9						

VARIABLE AIR VOLUME (VAV) BOX SCHEDULE

TAG	SPACE SERVED	AIRFLOW (CFM)		INLET DUCT SIZE (DIA)	BASIS OF DESIGN		NOTES
		MAX	MIN		MANUF	MODEL	
VAV-101	130 - OFFICE; 132 - OFFICE; 134 - OFFICE; 135 - DEPT. HEAD	85	85	4	TITUS	DESV	1, 2
VAV-102	136 - DEPUTY; 138 - OFFICE; 140 - OFFICE	60	30	4	TITUS	DESV	1, 2
VAV-103	143 - STORAGE / LARGE PRINTER AREA; 146 - CIRC.	190	190	5	TITUS	DESV	1
VAV-104A	124 - STOR; 131 - OFFICE; 133 - OFFICE; 144 - OFFICE; 145 - OFFICE	100	100	5	TITUS	DESV	1
VAV-104B	137 - OFFICE; 139 - OFFICE; 141 - OFFICE	60	30	4	TITUS	DESV	1, 2
VAV-105	128 - OFFICE; 129 - OFFICE	40	40	4	TITUS	DESV	1
VAV-106	105 - CONF.	115	30	5	TITUS	DESV	1, 2
VAV-107	103 - MF CONF. HALL; 104 - CHAIR STORAGE	360	105	6	TITUS	DESV	1, 2, 3
VAV-108	102 - CIRC; 110 - LACT.; 127 - PRINT/SUPPLY	80	80	4	TITUS	DESV	1
VAV-109	114 - EOC OPEN OFFICE AREA	150	150	5	TITUS	DESV	1, 4
VAV-110	111 - CIRC.; 115 - EOC CONF.	90	90	4	TITUS	DESV	1, 4
VAV-111	116 - EOC KKITCHEN; 117 - EOC STOR. OVERNIGHT	45	45	4	TITUS	DESV	1, 4
VAV-112	118 - OFFICE; 119 - OFFICE	40	30	4	TITUS	DESV	1, 2
VAV-113	120 - BREAK ROOM	100	45	4	TITUS	DESV	1, 2
VAV-114	121 - TMC SERVER; 122 - FDOT SERVER	50	50	4	TITUS	DESV	1, 4
VAV-115	CONSTANT EXHAUST	805	805	8	TITUS	DESV	1, 4
VAV-116	VARIABLE EXHAUST	715	270	8	TITUS	DESV	1, 4
VAV-201	252 - DEPUTY; 253 - OFFICE; 255 - OFFICE; 256 - OFFICE	85	40	4	TITUS	DESV	1, 2
VAV-202	246 - DEPUTY; 248 - OFFICE; 250 - DEPUTY	65	35	4	TITUS	DESV	1, 2
VAV-203	240 - DEPUTY; 242 - OFFICE; 244 - DEPUTY	65	30	4	TITUS	DESV	1, 2
VAV-204	234 - OFFICE; 236 - OFFICE; 238 - OFFICE; 239 - DEPT. HEAD	85	40	4	TITUS	DESV	1, 2
VAV-205	226 - PRINT/SUPPLY; 265 - CIRC.	220	220	6	TITUS	DESV	1, 4
VAV-206	245 - OFFICE; 247 - OFFICE; 249 - OFFICE; 251 - OFFICE; 254 - OFFICE; 257 - STOR.	120	50	5	TITUS	DESV	1, 2
VAV-207	243 - PRINT/SUPPLY; 259 - STOR.; 261 - BREAK RM	155	155	5	TITUS	DESV	1
VAV-208	233 - OFFICE; 235 - OFFICE; 237 - OFFICE	60	25	4	TITUS	DESV	1, 2
VAV-209	202 - OFFICE; 204 - OFFICE; 206 - OFFICE; 208 - DEPT. HEAD	90	45	4	TITUS	DESV	1, 2
VAV-210	201 - OFFICE; 203 - OFFICE; 205 - OFFICE	60	60	4	TITUS	DESV	1
VAV-211	258 - CONF.	135	35	5	TITUS	DESV	1, 2
VAV-212	207 - OFFICE; 210 - OFFICE; 212 OFFICE; 214 - OFFICE	80	30	4	TITUS	DESV	1, 2
VAV-213	216 - OFFICE; 218 - OFFICE; 219 - EFB STORAGE; 260 - TELE	80	80	4	TITUS	DESV	1
VAV-214	223 - OFFICE; 228 - DEPUTY; 229 - OFFICE; 230 - OFFICE; 231 - OFFICE; 232 - OFFICE	125	125	4	TITUS	DESV	1
VAV-215	209 - OFFICE; 211 - OFFICE; 213 - OFFICE; 215 - OFFICE	80	30	4	TITUS	DESV	1, 2
VAV-216	217 - OFFICE; 224 - OFFICE; 225 - OFFICE; 227 - OFFICE	80	35	4	TITUS	DESV	1, 2
VAV-217	CONSTANT EXHAUST	615	615	7	TITUS	DESV	1, 4
VAV-218	VARIABLE EXHAUST	930	365	9	TITUS	DESV	1
VAV-301	336 - DEPT. HEAD; 337 - OFFICE; 339 - OFFICE	60	30	4	TITUS	DESV	1, 2
VAV-302	327 - OFFICE; 328 - DEPUTY; 331 - OFFICE; 333 - OFFICE; 335 - OFFICE	100	45	4	TITUS	DESV	1, 2
VAV-303	322 - OFFICE; 324 - DEPUTY; 326 - DEPT. HEAD	65	30	4	TITUS	DESV	1, 2
VAV-304	318 - PRINT; 338 - PRINT - 343; TELE.; 346 - CIRC.	150	150	5	TITUS	DESV	1, 4
VAV-305	323 - OFFICE; 329 - OFFICE; 330 - OFFICE; 332 - OFFICE; 334 - OFFICE	100	100	4	TITUS	DESV	1
VAV-306	341 - OFFICE; 342 - OFFICE; 344 - OFFICE; 345 - OFFICE	80	80	4	TITUS	DESV	1
VAV-307	301 - OFFICE; 303 - OFFICE; 304 - OFFICE	60	25	4	TITUS	DESV	1, 2
VAV-308	302 - CONF.	130	25	5	TITUS	DESV	1, 2
VAV-309	312 - BREAK ROOM	75	75	4	TITUS	DESV	1
VAV-310	307 - OFFICE; 309 - OFFICE; 311 - OFFICE	60	60	4	TITUS	DESV	1
VAV-311	305 - DEPUTY; 306 - OFFICE; 308 - OFFICE; 310 - OFFICE	80	80	4	TITUS	DESV	1
VAV-312	316 - OFFICE; 317 - OFFICE; 319 - DEPUTY; 320 - OFFICE; 321 - STOR.	100	100	4	TITUS	DESV	1
VAV-313	CONSTANT EXHAUST	615	615	7	TITUS	DESV	1, 4
VAV-314	VARIABLE EXHAUST	410	155	6	TITUS	DESV	1
NOTES:							
1. VAV / VAV BOXES ARE BEING USED TO PROVIDE VARIABLE VENTILATION/EXHAUST AIRFLOW AS PART OF A DEMAND CONTROLLED VENTILATION STRATEGY FOR ENERGY SAVINGS; BOXES ARE NOT THERMOSTATICALLY CONTROLLED.							
2. VAV BOX CONTROLLED VIA OCCUPANCY SENSOR, SEE CONTROLS SEQUENCE OF OPERATION AND ELECTRICAL DRAWINGS.							
3. VAV BOX CONTROLLED VIA CO2 SENSOR, SEE CONTROLS SEQUENCE OF OPERATION.							
4. MISSION CRITICAL UNIT TO BE PRIORITIZED DURING EMERGENCY OPERATION MODE.							

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CLOSED CIRCUIT FLUID COOLER (CCFC) SCHEDULE

TAG	FLUID TYPE	CAPACITY (MBH)	FLOW (GPM)	PRESS DROP (PSIG)	EWT (°F)	LWT (°F)	AMBIENT WB (°F)	FAN		PUMP		BASIN HEATER (KW)	ELECTRICAL DATA			BASIS OF DESIGN		NOTES
								HP	AIRFLOW (CFM)	SPRAY WATER (GPM)	HP		VOLTS / PHASE / HERTZ	FLA	MOP	MFG.	MODEL	
CCFC-01	WATER	550	100	0.763	98	87	79.5	7.5	46,860	500	5	6	460 / 3 / 60	21	30	TOWER TECH	TTCC	1, 2, 3
CCFC-02	WATER	550	100	0.763	98	87	79.5	7.5	46,860	500	5	6	460 / 3 / 60	21	30	TOWER TECH	TTCC	1, 2, 3
NOTES:																		
1. PROVIDE FACTORY SUPPLIED POWER CONTROL PANEL FOR SINGLE POINT POWER CONNECTION (460V/3PH/60HZ).																		
2. PROVIDE MANUFACTURER'S RECOMMENDED STRUCTURAL SUPPORT.																		
3. PROVIDE UNIT RATED FOR 5000 HOUR SALT SPRAY TESTING IN ACCORDANCE WITH ASME B-117																		
7/6/2026 9:48																		

PUMP (P) SCHEDULE

TAG	LOCATION	PUMP TYPE	SERVICE	FLUID TYPE	FLUID TEMP (°F)	GPM	HEAD (FT H2O)	NSPH REQD (FT)	IMPELLER DIAMETER (IN)	MIN EFF. (%)	ELECTRICAL DATA			BASIS OF DESIGN		NOTES
											MTR HP	NOMINAL MOTOR RPM	VOLTS/ PHASE/ HERTZ	MANUF	MODEL	
CWP-01	149 - MECH / FIRE RISER	BASE MTD END SUCTION	CONDENSER WATER SECONDARY LOOP	WATER	103	375	38	5.1	7	83	5	1760	480 / 3 / 60	TACO	FI3007D	1-4
CWP-02	149 - MECH / FIRE RISER	BASE MTD END SUCTION	CONDENSER WATER SECONDARY LOOP	WATER	103	375	38	5.1	7	83	5	1760	480 / 3 / 60	TACO	FI3007D	1-4
CWPP-01	149 - MECH / FIRE RISER	INLINE	CONDENSER WATER PRIMARY LOOP	WATER	87	200	28	4.1	6	81	5	1413	480 / 3 / 60	TACO	SKV3007D	1-4
CWPP-02	149 - MECH / FIRE RISER	INLINE	CONDENSER WATER PRIMARY LOOP	WATER	87	200	28	4.1	6	81	5	1413	480 / 3 / 60	TACO	SKV3007D	1-4
BP-01	149 - MECH / FIRE RISER	INLINE	HOT WATER CIRCULATION - B-01	WATER	53	15	15	-	3	-	0.17	3250	115 / 1 / 60	TACO	IL0011	1-3, 5
BP-02	149 - MECH / FIRE RISER	INLINE	HOT WATER CIRCULATION - B-01	WATER	53	15	15	-	3	-	0.17	3250	115 / 1 / 60	TACO	IL0011	1-3, 5
NOTES: - MOTORS SHALL BE PREMIUM EFFICIENCY TYPE. - EFFICIENCY LISTED IS BASED ON DESIGN PHASE PUMP SELECTION; SUBMITTED PUMP SHALL HAVE SIMILAR EFFICIENCY OR BETTER. - IMPELLER DIAMETER LISTED ON SCHEDULE IS CUT DIAMETER BASED ON DESIGN PHASE PUMP SELECTION. - UNIT SHALL BE PROVIDE WITH VARIABLE SPEED DRIVE. - BOILER CIRCULATION PUMP TO BE MOUNTED INLINE ON PIPE; CONTROL IN CONJUNCTION WITH BOILER OPERATION.																

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EXPANSION TANK (ET) SCHEDULE

TAG	LOCATION	SERVICE	TYPE	SIZE DIA X H (IN)	CONN. SIZE (IN)	VOLUME (GALLON)		CHARGING PRESSURE (PSI)	BASIS OF DESIGN		NOTES
						TANK	REQUIRED ACCEPTANCE		MANUF	MODEL	
ET-01	149 - MECH/ FIRE RISER	CONDENSER WATER LOOP	BLADDER	20 X 29	1"	23	23	25	TACO	CA90	1
NOTES: 1. HEAVY DUTY BUTYL RUBBER DIAPHRAGM TYPE; 125 PSI RATED DESIGN PRESSURE. TANK TO BE ASME RATED.											
7/6/2026 9:48											

ELECTRIC BOILER (B) SCHEDULE

TAG	TYPE	MAX OUTPUT (KW)	WATER DATA			BASIS OF DESIGN		ELECTRICAL DATA			BASIS OF DESIGN		NOTES
			EWT (°F)	LWT (°F)	GPM	MANUF	MODEL	VOLT/ PHASE/ HERTZ	FLA	MCA	MANUF	MODEL	
B-01	ELECTRIC	72	58	93	15	CEMLINE	VB30ETB	480 / 3 / 60	87	125	CEMLINE	VB30ETB	1
B-02	ELECTRIC	72	58	93	15	CEMLINE	VB30ETB	480 / 3 / 60	87	125	CEMLINE	VB30ETB	1

NOTES:

1. PROVIDE WITH MULTIPLE BOILER CONTROLLER WITH CAPABILITY TO INTERFACE TO BUILDING DDC SYSTEM.

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AIR SEPARATION & SEDIMENT REMOVAL TANK (AS) SCHEDULE

TAG	LOCATION	SERVICE	TYPE	GPM	CONNECTION SIZE	INSTALLED WEIGHT (LBS)	BASIS OF DESIGN		NOTES
							MANUF	MODEL	
AS-01	149 - MECH/ FIRE RISER	CONDENSER WATER LOOP	COALSESCING	375	8	325	TACO	4908	1
NOTES: 1. PROVIDE WITH BLOW DOWN CONNECTION AND MANUAL BLOW DOWN VALVE, STRAINER, AND AUTOMATIC AIR VENT.									

APPROVED EQUIVALENT TO BASIS OF DESIGN IS ACCEPTABLE. THE ELECTRICAL INFORMATION PRESENTED IN THESE SCHEDULES IS BASED ON MECHANICAL EQUIPMENT CATALOG DATA AND/OR SELECTIONS MADE DURING DESIGN. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ELECTRICAL REQUIREMENTS OF THE ACTUAL MECHANICAL EQUIPMENT PROVIDED. THE CONTRACTOR WILL IDENTIFY ANY AND ALL DIFFERENCES AND IS RESPONSIBLE FOR PROVIDING WIRING, DEVICES, AND EQUIPMENT NEEDED DUE TO THESE DIFFERENCES AT THEIR EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING MECHANICAL EQUIPMENT ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL TRADE.

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MECHANICAL - SCHEDULES

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MECHANICAL - DIAGRAMS

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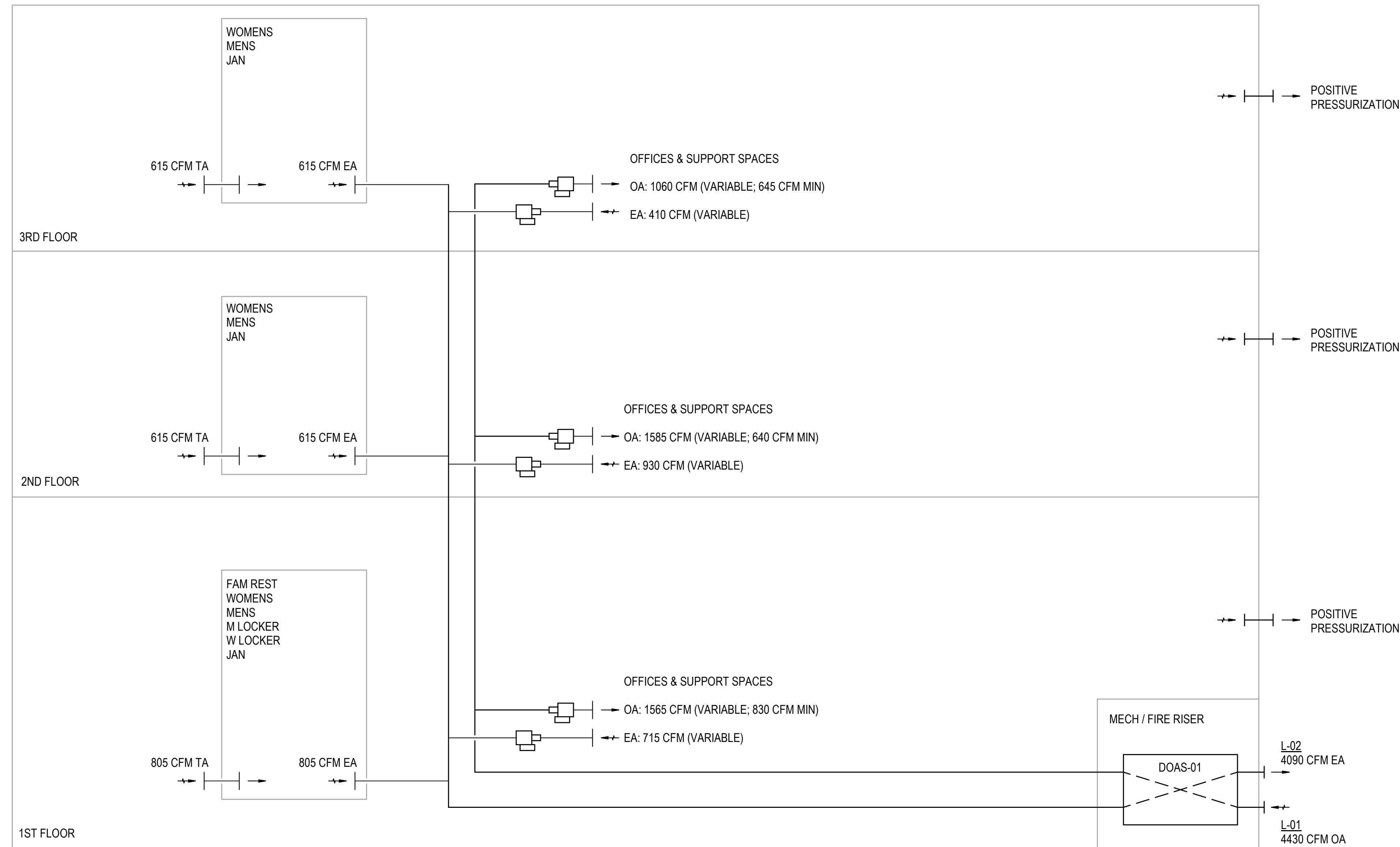
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FACILITY AIR BALANCE	DESIGN AIRFLOW (CFM)	
	CONSTANT	VARIABLE
LEVEL 03 Σ DESIGN OA:	645	415
LEVEL 03 Σ CONSTANT + VARIABLE DESIGN OA:		1,060
LEVEL 03 Σ DESIGN EA:	615	410
LEVEL 03 Σ CONSTANT + VARIABLE DESIGN EA:		1,025
LEVEL 03 PRESSURIZATION (%):	5%	3%
LEVEL 03 PRESSURIZATION:	30	5

LEVEL 02 Σ DESIGN OA:	640	945
LEVEL 02 Σ CONSTANT + VARIABLE DESIGN OA:	1,585	
LEVEL 02 Σ DESIGN EA:	615	930
LEVEL 02 Σ CONSTANT + VARIABLE DESIGN EA:	1,545	
LEVEL 02 PRESSURIZATION (%):	4%	3%
LEVEL 02 PRESSURIZATION:	25	15

LEVEL 01 Σ DESIGN OA:	830	735
LEVEL 01 Σ CONSTANT + VARIABLE DESIGN OA:	1,565	
LEVEL 01 Σ DESIGN EA:	805	715
LEVEL 01 Σ CONSTANT + VARIABLE DESIGN EA:	1,520	
LEVEL 01 PRESSURIZATION (%):	3%	3%
LEVEL 01 PRESSURIZATION:	25	20

NOTE:
SEE VENTILATION SCHEDULE FOR INDIVIDUAL SPACE AIRFLOWS

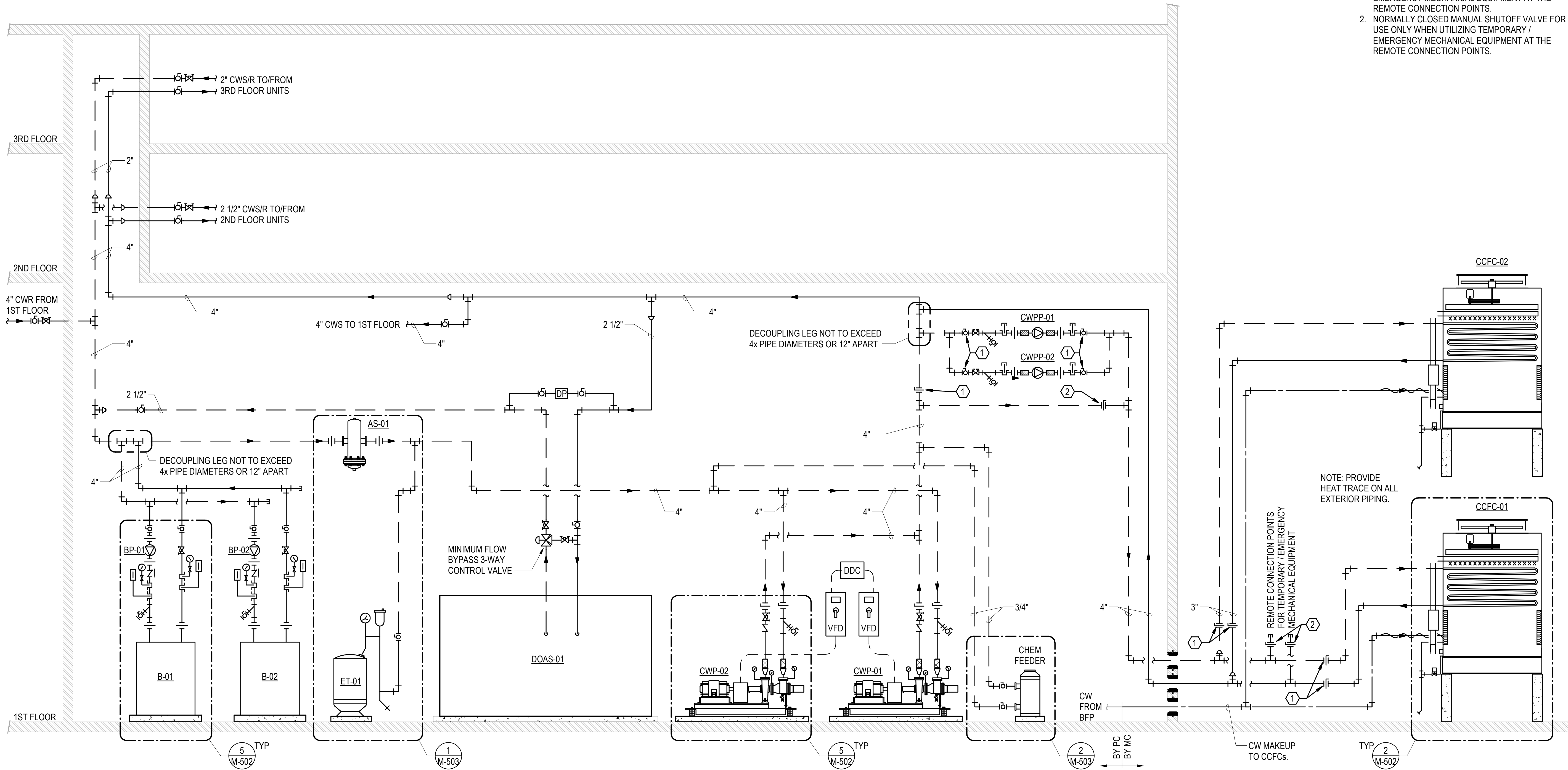
1 AIR BALANCE DIAGRAM

A

B

C

D



1 MECHANICAL PIPING DIAGRAM
SCALE: NTS

- KEYNOTES
1. NORMALLY OPEN MANUAL SHUTOFF VALVE FOR USE ONLY WHEN UTILIZING TEMPORARY / EMERGENCY MECHANICAL EQUIPMENT AT THE REMOTE CONNECTION POINTS.
 2. NORMALLY CLOSED MANUAL SHUTOFF VALVE FOR USE ONLY WHEN UTILIZING TEMPORARY / EMERGENCY MECHANICAL EQUIPMENT AT THE REMOTE CONNECTION POINTS.

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EXISTING AUTOMATED LOGIC
WEB CONTROL FRONT END

FPOC

BY FDOT

BY CONTRACTOR

(2) CAT 6E CABLES

AUTOMATED LOGIC NETWORK CONTROLLER

JACE

ASHRAE STD 135 BUILDING / NETWORK AREA CONTROLLER (NAC)

LOCAL OPERATOR WORKSTATION (PROVIDED LAPTOP) - MECH/FIRE RISER 147 PROVIDE SECOND LAPTOP (TWO TOTAL) TO MAINTENANCE STAFF

BUILDING PRIMARY CONTROLS NETWORK

HARDWIRED BINARY AND ANALOG INPUTS AND OUTPUTS TO SENSORS, ACTUATORS, CONTACTS, RELAYS, ETC. (TYP)

SENSORS, ACTUATORS, ETC. COMMUNICATING DIRECTLY OVER BLDG CONTROL NETWORK

AUTOMATED LOGIC EQUIPMENT CONTROLLER

EQUIPMENT DIGITAL CONTROLLERS (TYP):
- AHU CONTROLLERS
- VAV BOX CONTROLLERS
- VARIABLE FREQUENCY DRIVES
- CCFC CONTROLLER
- BOILER CONTROLLER
- MISC EQUIP & OTHER CONTROLLERS
- I/O MODULES, METERS

AUTOMATED LOGIC EQUIPMENT CONTROLLER

AUTOMATED LOGIC EQUIPMENT CONTROLLER

CONTROLS - SUGGESTED SYSTEM ARCHITECTURE DIAGRAM

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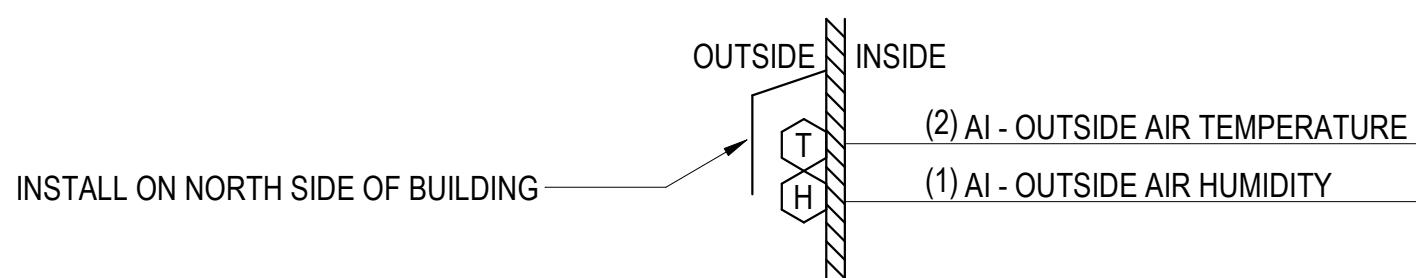
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OUTDOOR AIR CONDITIONS SEQUENCE OF OPERATION:

THE CONTROLLER SHALL MONITOR THE OUTSIDE AIR TEMPERATURE AND HUMIDITY AND CALCULATE THE OUTSIDE AIR ENTHALPY ON A CONTINUAL BASIS. THESE VALUES SHALL BE MADE AVAILABLE TO THE SYSTEM AT ALL TIMES.

ALARM SHALL BE GENERATED AS FOLLOWS:

- **SENSOR FAILURE:** SENSOR READING INDICATES SHORTENED OR DISCONNECTED SENSOR. IN THE EVENT OF A SENSOR FAILURE, AN ALTERNATE OUTSIDE AIR CONDITIONS SENSOR (SUCH AS AHU OA SENSOR) SHALL BE MADE AVAILABLE TO THE SYSTEM WITHOUT INTERRUPTION IN SENSOR READINGS.

IF NO OA TEMP SENSOR CAN BE READ, A DEFAULT VALUE OF 65°F WILL BE USED.

IF NO OA HUMIDITY SENSOR CAN BE READ, A DEFAULT VALUE OF 50% WILL BE USED

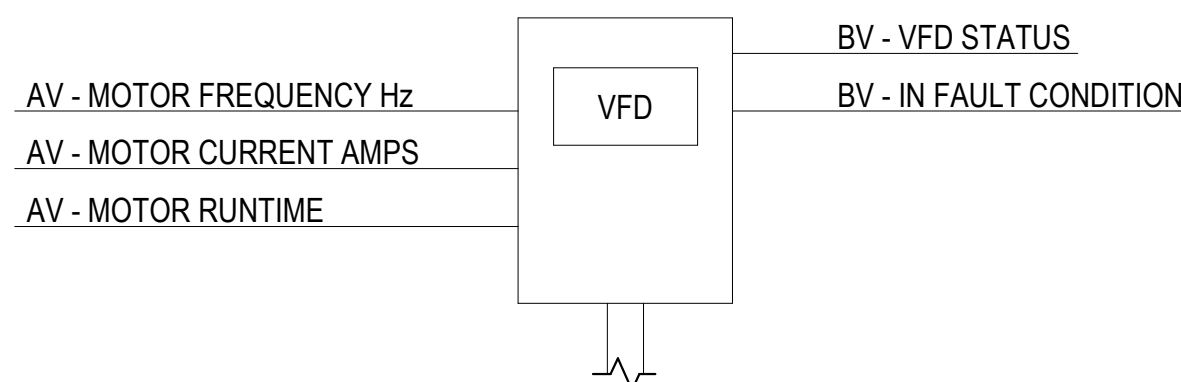
OUTSIDE AIR TEMPERATURE HISTORY:

THE CONTROLLER SHALL MONITOR AND RECORD THE HIGH AND LOW TEMPERATURE READINGS FOR THE OUTSIDE AIR. THESE READINGS SHALL BE RECORDED ON A DAILY, MONTH-TO-DATE, AND YEAR-TO-DATE BASIS.

[illegible]

1 OUTSIDE AIR CONDITIONS CONTROL DIAGRAM

SCALE: NTS



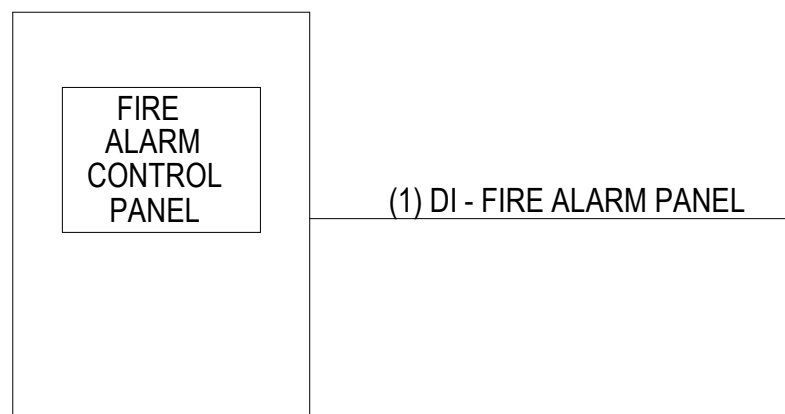
VARIABLE FREQUENCY DRIVE INTERFACE

VARIABLE FREQUENCY DRIVE (VFD) INTERFACE MONITOR:
CURRENT VFD STATUS AND OPERATING CONDITIONS SHALL BE MONITORED THROUGH ITS COMMUNICATIONS INTERFACE PORT. THE INTERFACE SHALL MONITOR AND TREND THE POINTS AS SHOWN ON THE POINTS LIST.

[illegible]

2 VARIABLE FREQUENCY DRIVE (VFD)

SCALE: NTS



FIRE ALARM SEQUENCE OF OPERATION

THE CONTROLLER SHALL MONITOR FIRE ALARM. CONNECT TO RELAY MODULE.

UPON ACTIVATION OF FIRE ALARM SYSTEM THE FOLLOWING SHALL OCCUR WITHIN 30 SECONDS.

- ALL FANS SHALL SHUTDOWN
- ALL OUTDOOR AIR DAMPERS SHALL CLOSE
- ALL EXHAUST DAMPERS SHALL CLOSE
- AN ALARM SHALL BE GENERATED

SYSTEM SHALL SHUTDOWN AND DAMPERS SHALL CLOSE REGARDLESS OF THE POSITION OF HAND-OFF-AUTO SWITCHES.

[illegible]

3 FIRE ALARM SYSTEM CONTROL DIAGRAMS

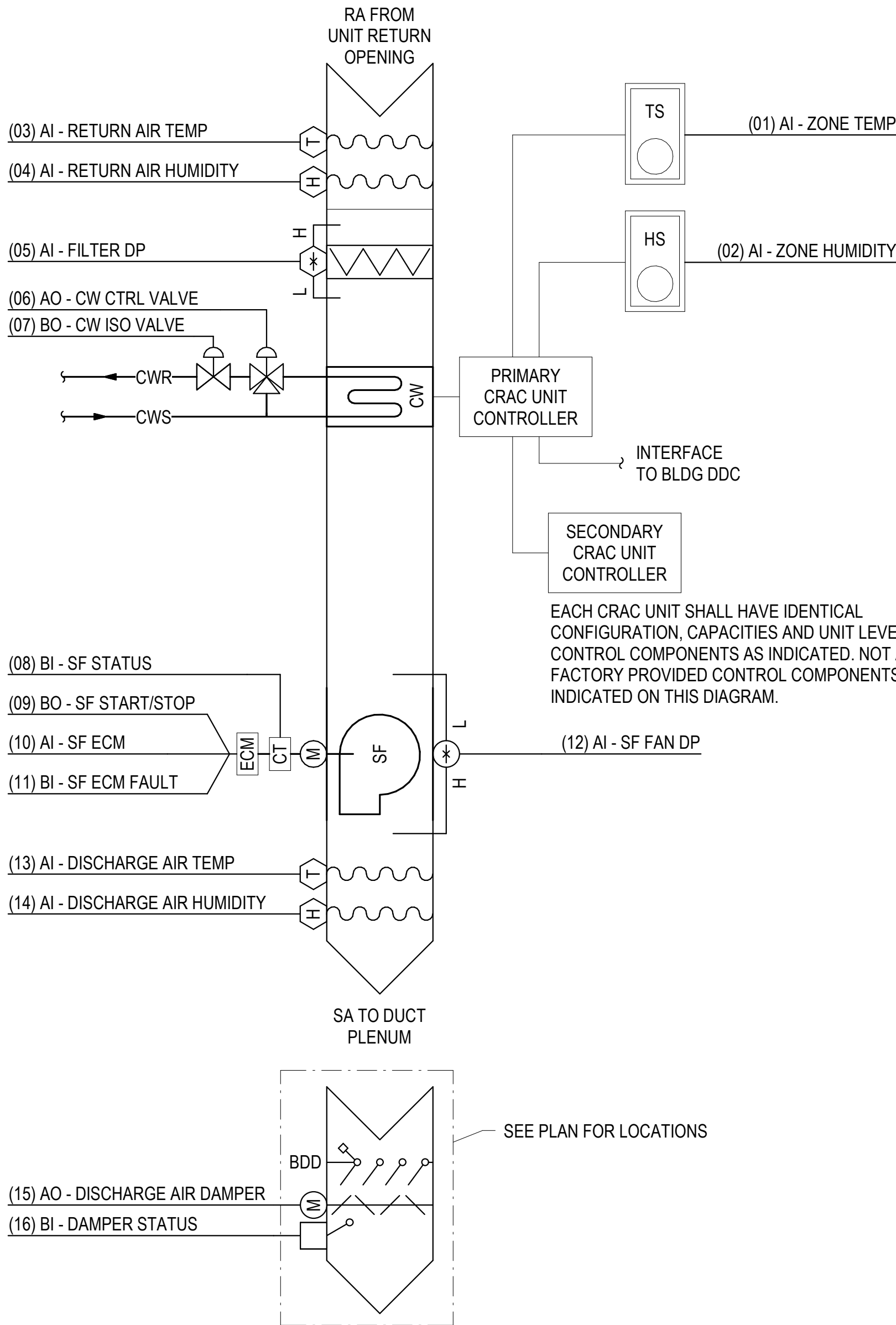
SCALE: NTS

A

B

C

D



1 CRAC-01 CONTROL DIAGRAM
SCALE: NTS

COMPUTER ROOM AIR CONDITIONER (CRAC) SYSTEM - SEQUENCE OF OPERATION

- GENERAL:
 - MANUFACTURER'S CONTROLS SHALL ROTATE ACTIVE / STANDBY UNIT STATUS ON A WEEKLY (ADJ) BASIS TO MAINTAIN EQUAL RUNTIMES. MOTORIZED DAMPERS IN EACH DUCT PLENUM WILL FULLY OPEN WHEN THEIR ASSOCIATED CRAC UNIT IS OPERATING AND FULLY CLOSE WHEN IT IS NOT.
- RUN CONDITIONS:
 - THE CRAC SYSTEM SHALL OPERATE CONTINUOUSLY AND MUST MAINTAIN THE SPACE AS INDICATED ON M-002.
 - PROVIDE ALARMS AS FOLLOWS:
 - HIGH ZONE TEMPERATURE: IF THE ZONE TEMPERATURE IS GREATER THAN THE SPACE SETPOINT BY 5°F (ADJ)
 - LOW ZONE TEMPERATURE: IF THE ZONE TEMPERATURE IS LESS THAN 65° (ADJ)
 - HIGH ZONE HUMIDITY: IF THE ZONE DEWPOINT EXCEEDS 59°F
 - LOW ZONE HUMIDITY: IF THE ZONE DEWPOINT FALLS BELOW 42°F
 - HIGH UNIT DISCHARGE AIR TEMPERATURE: IF THE DISCHARGE AIR TEMPERATURE EXCEEDS 120°F (ADJ)
 - LOW UNIT DISCHARGE AIR TEMPERATURE: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 40°F (ADJ)
 - THE ACTIVE CRAC UNIT WILL OPERATE TO MAINTAIN SETPOINTS. IF THE ACTIVE CRAC UNIT CANNOT MAINTAIN SETPOINTS, OR IS OTHERWISE NOT OPERATIONAL, THE BAS OR THE AUTO CHANGEOVER CONTROL PANEL MUST CHANGE THE POSITION OF THE MOTORIZED DAMPERS AND ENERGIZE THE STANDBY UNIT. PROVIDE COUNTERBALANCE BACKDRAFT DAMPERS AS REDUNDANCY IN THE EVENT MOTORIZED DAMPERS CANNOT CLOSE.
- SMOKE DETECTION CONDITION SHUTDOWN:
 - CRAC UNITS SERVING INFORMATION TECHNOLOGY AND COMMUNICATIONS EQUIPMENT SHALL CONTINUE TO OPERATE UPON A BUILDING WIDE FIRE ALARM OR DURING EMERGENCY OPERATION MODE.
- FAN / FAN STATUS:
 - THE ACTIVE CRAC UNIT FANS SHALL OPERATE CONTINUOUSLY WHEN THE UNIT IS COMMANDED TO RUN AND THE ISOLATION DAMPERS ARE PROVEN OPEN, UNLESS SHUTDOWN ON INTERNAL SAFETIES.
 - THE UNIT CONTROLLER SHALL MONITOR THE FAN STATUS AND PROVIDE ALARMS AS FOLLOWS:
 - FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF
 - FAN IN HAND: COMMANDED OFF, BUT THE FAN IS ON
 - FAN RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ)
- FILTER DIFFERENTIAL PRESSURE MONITOR:
 - THE CRAC UNIT CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTER; THIS INFORMATION SHALL BE AVAILABLE ON THE UNIT CONTROLLER INTERFACE AND PROVIDED TO THE DDC SYSTEM.
- HUMIDITY CONTROL:
 - THE CRAC UNIT'S INTERNAL MICROPROCESSOR/CONTROLLER SHALL DETERMINE THE MOISUTRE CONTENT OF THE ROOM AIR AND PREVENT UNNESSARY HUMIDIFICATION AND DEHUMIDIFICATION CYCLES BY RESPONDING TO CHANGES IN DEWPOINT TEMPERATURE. ON A RISE IN SPACE HUMIDITY ABOVE UPPER LIMIT SETPOINT OF 55°F DEWPOINT (ADJ) THE DEHUMIDFICATION CYCLE SHALL BE ENABLED, UPOIN A FALL IN SPACE HUMIDITY BELOW 55° DEWPOINT (ADJ) THE DEHUMIDIFICATION CYCLE SHALL BE DISABLED. ON A FALL IN SPACE HUMIDITY BELOW LOWER LIMIT SETPOINT OF 42°F DEWPOINT (ADJ), THE HUMIDIFICATION CYCLE SHALL BE ENABLED UNTIL SPACE REACHES SETPOINT.
- DEHUMIDIFICATION CYCLE:
 - EACH CRAC UNIT SHALL BE PROVIDED WITH A DEHUMIDIFICATION CYCLE TO CONDENSE EXCESS MOISTURE ON THE COIL TO DISCHARGE THROUGH THE CONDENSATE DRAIN, WITH HOT GAS REHEATING PROVIDED TO OFFSET EXCESS SENSIBLE COOLING INCURRED DURING THE DEHUMDFICATION CYCLE TO PREVENT SUBCOOLING OF THE SPACE BEYOND 5°F (ADJUSTABLE) BELOW THE ROOM TEMPERATURE SETPOINT. CRAC SYSTEM CONTROLLER SHALL ENABLE/MODULATE DEHUMIDIFICATION CYCLE AS REQUIRED TO MAINTAIN SPACE HUMIDITY LEVELS AT OR BELOW 55°F DEWPOINT.
- HUMIDIFICATION CYCLE:
 - EACH CRAC UNIT SHALL BE PROVIDED WITH A FACTORY INSTALLED SELF-CONTAINED ATMOSPHERIC STEAM GENERATOR UTILIZING BUILDING POTABLE WATER. CRAC SYSTEM CONTROLLER SHALL ENABLE/MODULATE STEAM SUPPLY TO MAINTAIN SPACE HUMIDITY LEVELS ABOVE 42°F DEWPOINT PER TIA-569.
- EMERGENCY OPERATIONS MODE:
 - CRAC UNITS MUST CONTINUE NORMAL OPERATION DURING
 - CRAC UNITS ARE FULLY REDUNDANT. UPON FAILURE OF A SINGLE CRAC UNIT THE REMAINING CRAC UNIT WILL IMMEDIATELY BEGIN NORMAL OPERATION.

CRAC (COMPUTER ROOM AIR CONDITIONER) - POINT LIST																				
POINT NUMBER	SYSTEM POINT DESCRIPTION	COLOR GRAPHIC	ANALOG					DIGITAL (BINARY)					SYSTEM FEATURES					NOTES		
			INPUT (AI)		OUTPUT (AO)			INPUT (BI)		OUTPUT (BO)			PROGRAMS		ALARMS					
			TEMPERATURE	RELATIVE HUMIDITY	PRESSURE	% OPEN/CLOSE	% OPEN/CLOSE	FAN % MODULATION (ECM)	STATUS ON/OFF	OPEN/CLOSE	OFF/ON (ENABLE)	OPEN/CLOSE	START/STOP	TREND	TIME SCHEDULING	ALARM INSTRUCT	AUTOMATIC RESTART		SENSOR FAIL	COMM. FAIL
	CRAC UNIT CONTROLLER(S)	●												●						1
	SYSTEM GRAPHIC	●																		
01	ZONE TEMPERATURE		●											●						
02	ZONE HUMIDITY			●										●				●		
03	RETURN AIR TEMPERATURE		●											●				●		
04	RETURN AIR HUMIDITY			●										●						
05	FILTER DIFFERENTIAL PRESSURE				●									●						
06	CW COOLING VALVE (3-WAY)					●														
07	CW ISOLATION VALVE (2-WAY)										●									
08	SUPPLY FAN STATUS								●					●						
09	SUPPLY FAN START/STOP													●						
10	SUPPLY FAN ECM SETPOINT					●								●						
11	SUPPLY FAN ECM FAULT								●					●						
12	SUPPLY FAN PRESSURE				●									●						
13	DISCHARGE AIR TEMPERATURE		●											●						
14	DISCHARGE AIR HUMIDITY			●										●						
15	DISCHARGE AIR DAMPER										●									2
16	DAMPER STATUS								●											2
##	RESERVED FOR FUTURE																			
1. NOT ALL FACTORY PROVIDED CONTROL POINTS INDICATED - REFER TO CRAC UNIT IOM AND PROJECT SPECIFICATIONS FOR COMPLETE INTERNAL UNIT CONTROL DEVICES AND SEQUENCES INCLUDING INTEGRAL HUMIDIFIER CONTROL, SUBFLOOR WATER DETECTION, ETC.																				
2. PROVIDE POINT FOR EACH LOCATION INDICATED, TOTAL OF 4 LOCATIONS.																				

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A

B

C

D

1

2

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4

5

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FDOT D3 OPERATIONS CENTER
CHIPLEY, FL 32428

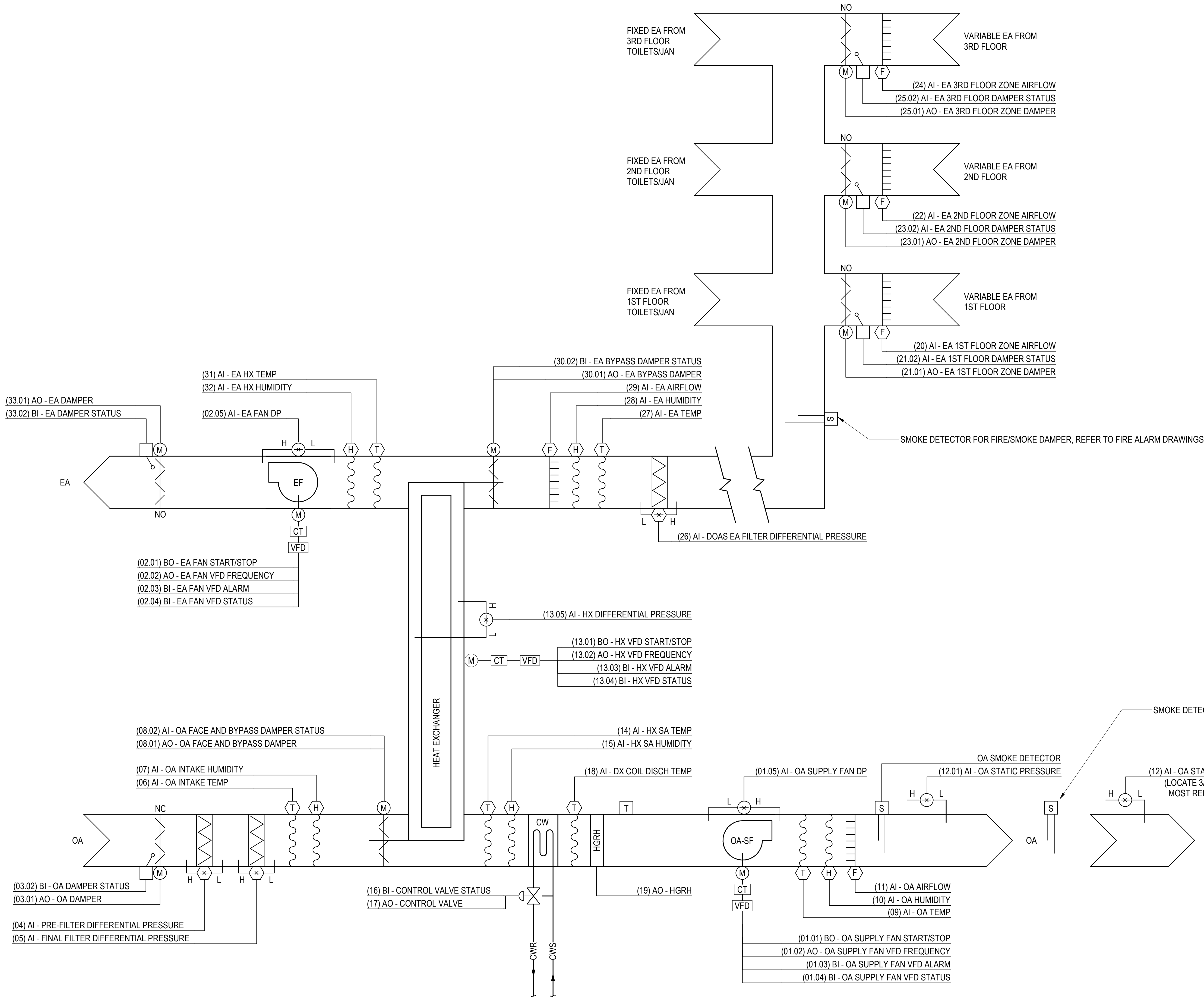
MECHANICAL - CONTROLS

Project Number:
4483951-52-01Date:
07-10-2026Scale:
AS NOTEDSheet #
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PHASE IV - FINAL DESIGN SUBMITTAL



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DOAS-01 CONTROL DIAGRAM

SCALE: NTS

